

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011624\
 Data File : VL040986.D
 Acq On : 16 Jan 2024 14:34
 Operator : SY/MD
 Sample : P1138-05DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/17/2024
 Supervised By :Mahesh Dadoda 01/17/2024

Quant Time: Jan 17 00:26:02 2024

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 : Wed Jan 17 00:20:56 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	1055545	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	3138326	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2849907	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	2192244	10.443	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.400%
Target Compounds						
					Qvalue	
9) Propene	2.690	41	470834	8.984	ppbv	99
10) Heptane	7.594	43	1237790	9.501	ppbv	97
13) Ethanol	3.237	45	2379506	179.965	ppbv	96
16) 1,3-Butadiene	2.967	39	251900m	4.621	ppbv	
20) Methylene Chloride	3.938	84	85875	1.903	ppbv #	92
25) Ethyl Acetate	5.221	43	1245344	5.677	ppbv #	77
26) Hexane	5.224	57	1786704	18.379	ppbv #	40
30) Cyclohexane	6.616	84	540973	6.675	ppbv	97
36) Benzene	6.381	78	2224067	9.066	ppbv	99
44) 2,2,4-Trimethylpentane	7.340	57	2495270	5.988	ppbv #	84
53) Toluene	9.237	91	6841145	25.148	ppbv	98
58) Ethyl Benzene	12.105	91	2116238	5.781	ppbv	99
59) m/p-Xylene	12.359	91	5195564	16.687	ppbv #	100
60) o-Xylene	13.073	91	2078979	7.087	ppbv	98
61) Styrene	12.915	104	66011m	0.473	ppbv	
62) Isopropylbenzene	14.040	105	442144	1.016	ppbv	98
64) n-propylbenzene	14.934	120	104224	0.955	ppbv	91
65) tert-Butylbenzene	16.117	119	181651	0.491	ppbv #	59
70) n-Butylbenzene	17.908	91	100995m	0.233	ppbv	
72) 4-Ethyltoluene	15.204	105	618504	1.921	ppbv	98
73) 1,3,5-Trimethylbenzene	15.365	105	481290	1.732	ppbv	99
74) 1,2,4-Trimethylbenzene	16.121	105	1721924	5.568	ppbv #	70
79) Naphthalene	21.410	128	25702m	0.172	ppbv	

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

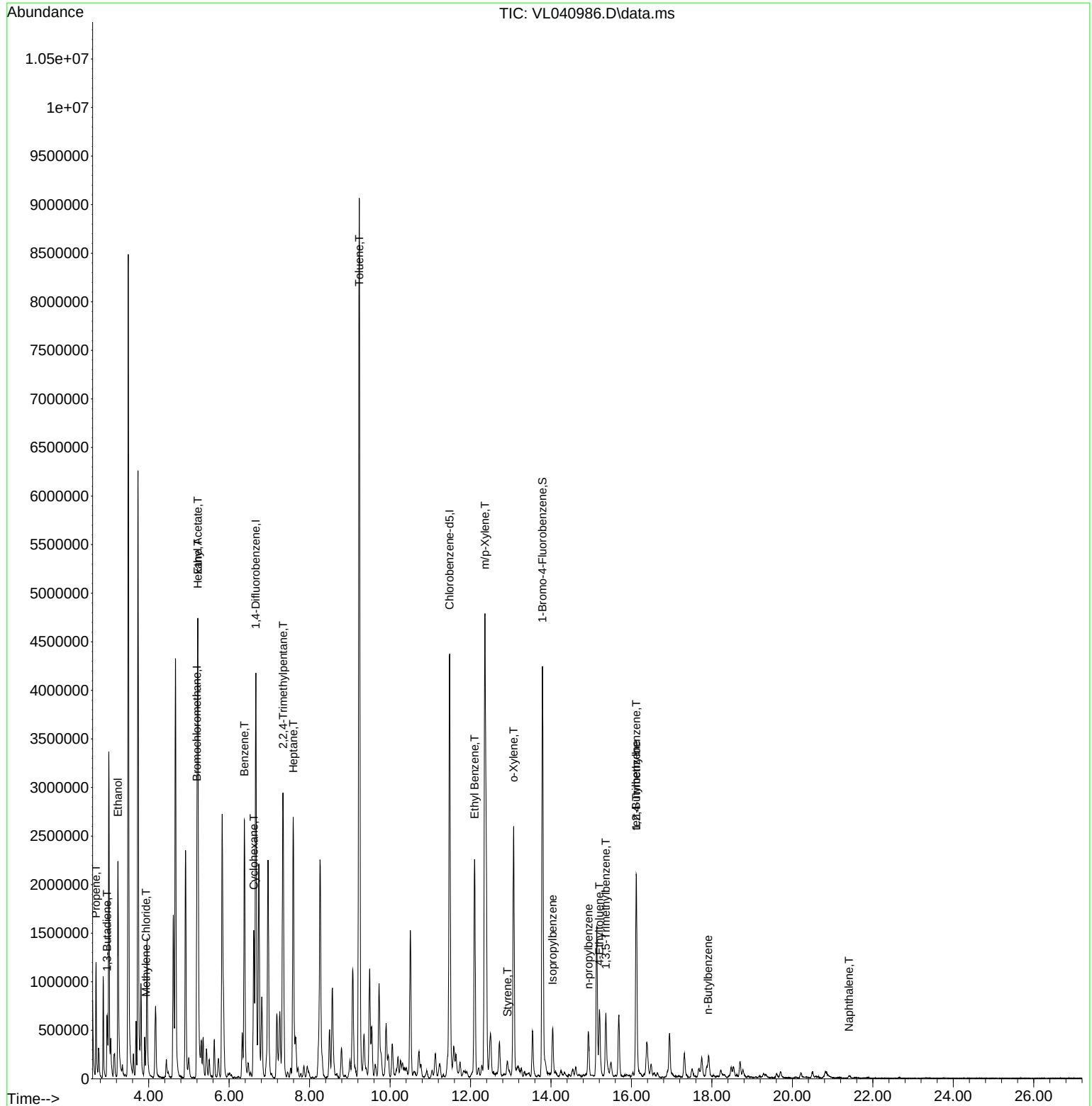
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011624\
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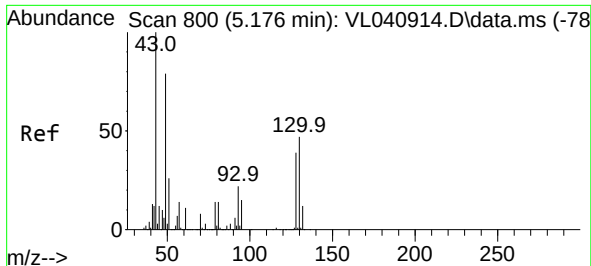
Instrument :
MSVOA_L
ClientSampleId :
OA1DL

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
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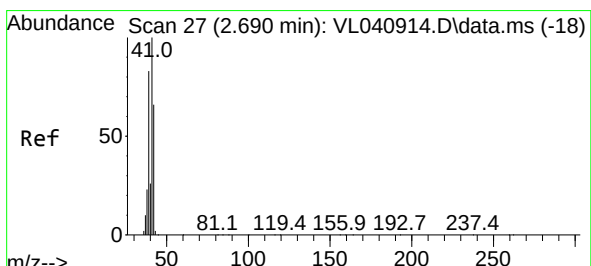
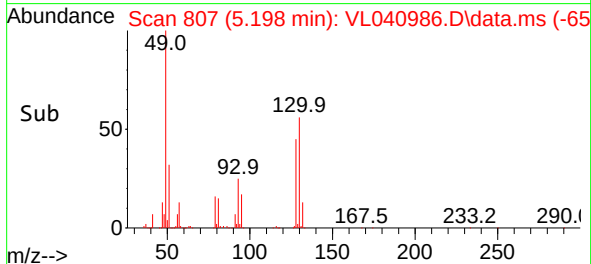
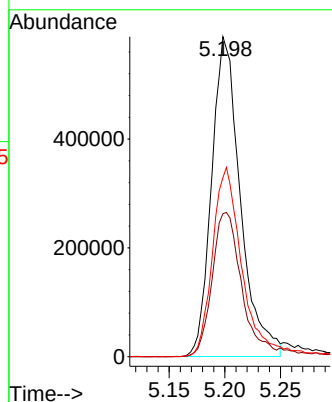
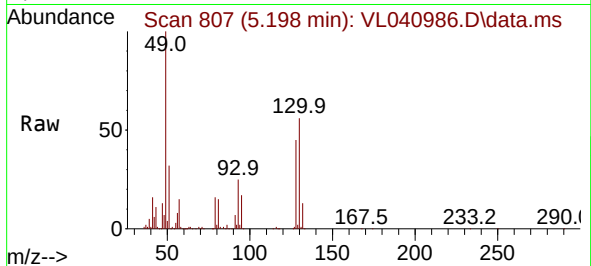
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
OA1DL

Tgt Ion: 49 Resp: 105554
Ion Ratio Lower Upper
49 100
128 49.6 23.8 71.2
130 62.9 30.1 90.5

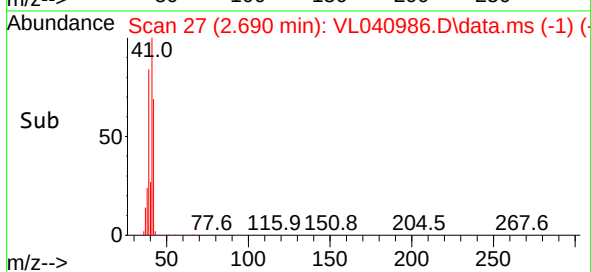
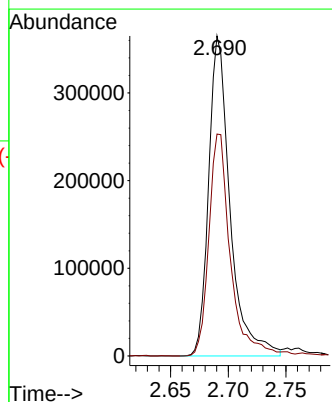
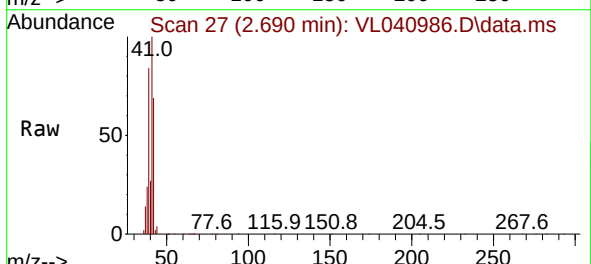
Manual Integrations
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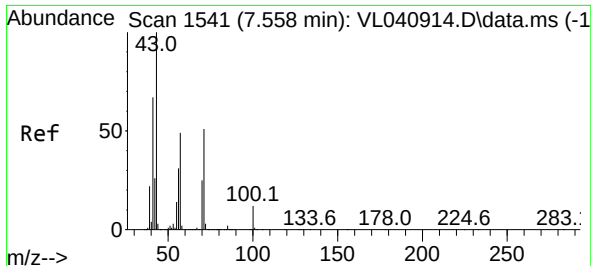
Reviewed By :Semsettin Yesilyurt 01/17/2024
Supervised By :Mahesh Dadoda 01/17/2024



#9
Propene
Concen: 8.984 ppbv
RT: 2.690 min Scan# 27
Delta R.T. 0.003 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

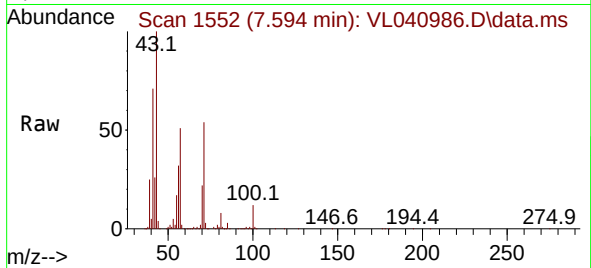
Tgt Ion: 41 Resp: 470834
Ion Ratio Lower Upper
41 100
42 70.7 55.8 83.6





#10
Heptane
Concen: 9.501 ppbv
RT: 7.594 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

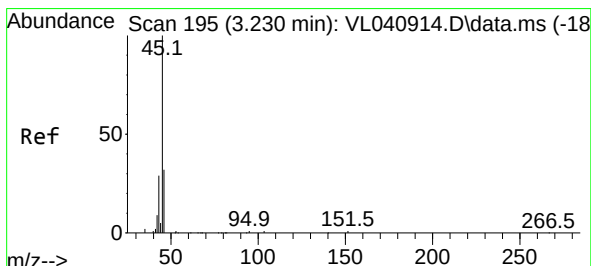
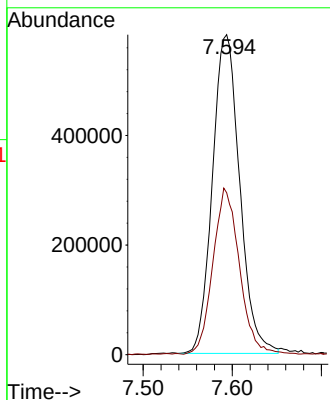
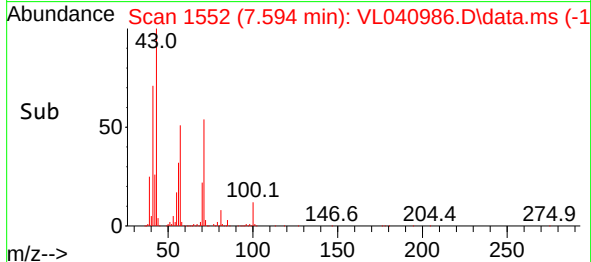
Instrument :
MSVOA_L
ClientSampleId :
OA1DL



Tgt Ion: 43 Resp: 1237790
Ion Ratio Lower Upper
43 100
57 51.3 39.3 58.9

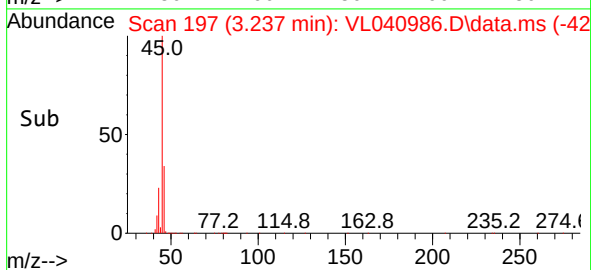
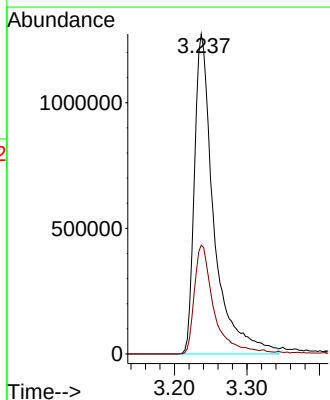
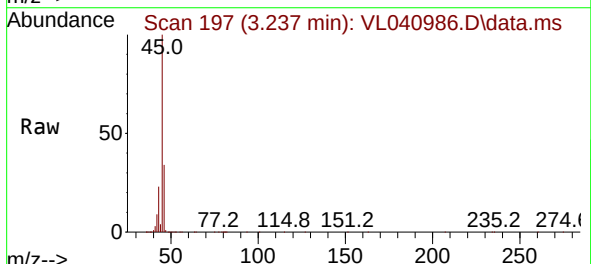
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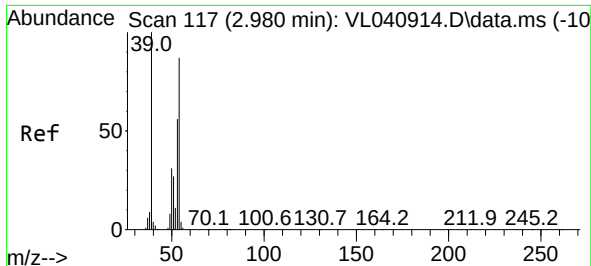
Reviewed By :Semsettin Yesilyurt 01/17/2024
Supervised By :Mahesh Dadoda 01/17/2024



#13
Ethanol
Concen: 179.965 ppbv
RT: 3.237 min Scan# 197
Delta R.T. -0.003 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

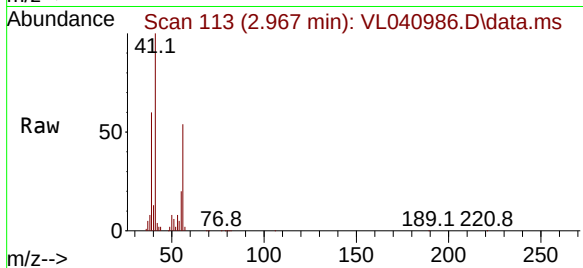
Tgt Ion: 45 Resp: 2379506
Ion Ratio Lower Upper
45 100
46 34.9 15.0 60.0





#16
1,3-Butadiene
Concen: 4.621 ppbv m
RT: 2.967 min Scan# 117
Delta R.T. -0.013 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

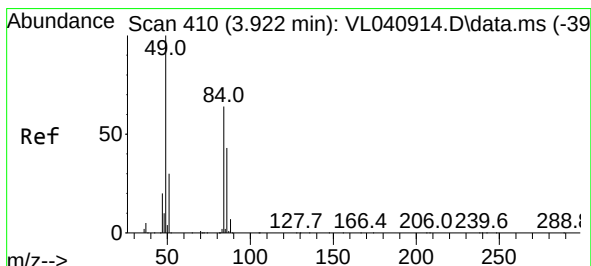
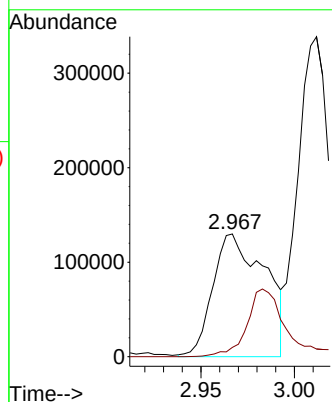
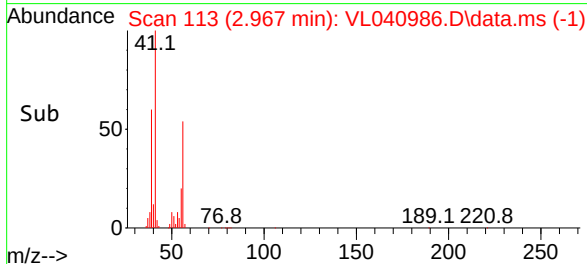
Instrument :
MSVOA_L
ClientSampleId :
OA1DL



Tgt Ion: 39 Resp: 251900
Ion Ratio Lower Upper
39 100
54 41.4 63.8 95.6

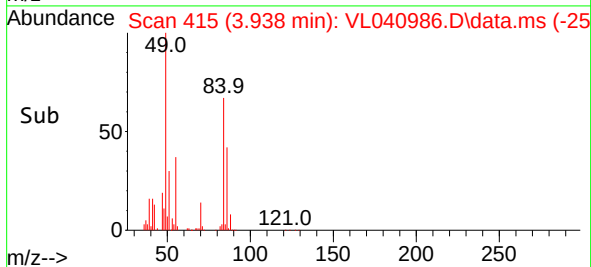
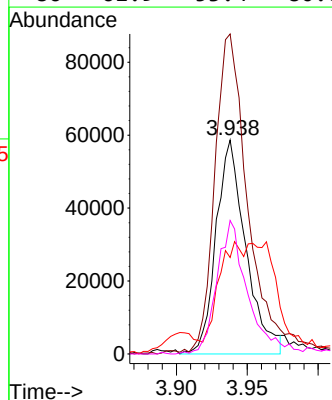
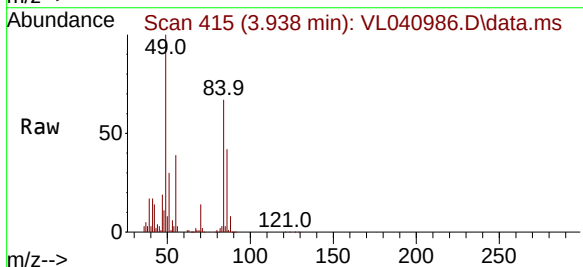
Manual Integrations
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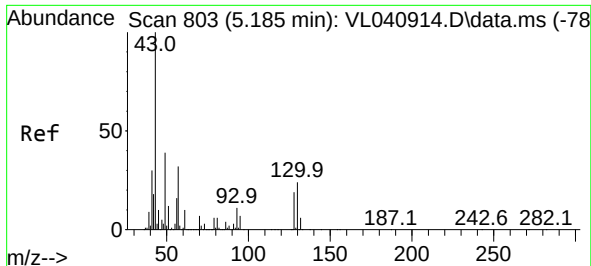
Reviewed By :Semsettin Yesilyurt 01/17/2024
Supervised By :Mahesh Dadoda 01/17/2024



#20
Methylene Chloride
Concen: 1.903 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.003 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

Tgt Ion: 84 Resp: 85875
Ion Ratio Lower Upper
84 100
49 148.7 124.6 187.0
51 35.1 37.2 55.8#
86 61.9 53.4 80.0





#25

Ethyl Acetate

Concen: 5.677 ppbv

RT: 5.221 min Scan# 814

Delta R.T. 0.013 min

Lab File: VL040986.D

Acq: 16 Jan 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

OA1DL

Tgt Ion: 43 Resp: 124534

Ion Ratio Lower Upper

43 100

45 0.3 8.2 12.2

61 0.3 7.6 11.4

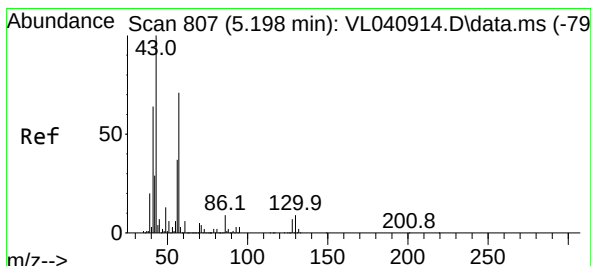
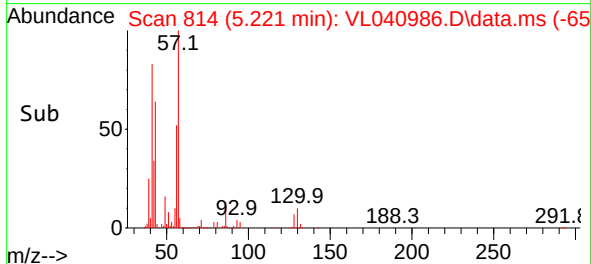
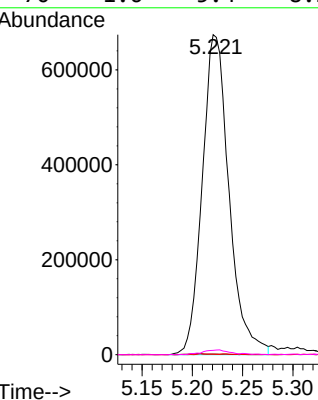
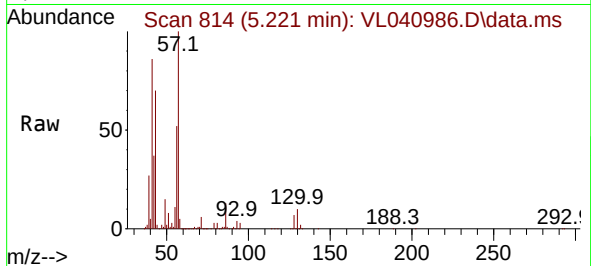
70 1.6 5.4 8.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/17/2024

Supervised By :Mahesh Dadoda 01/17/2024



#26

Hexane

Concen: 18.379 ppbv

RT: 5.224 min Scan# 815

Delta R.T. 0.006 min

Lab File: VL040986.D

Acq: 16 Jan 2024 14:34

Tgt Ion: 57 Resp: 1786704

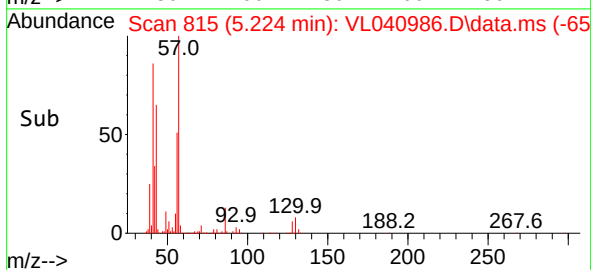
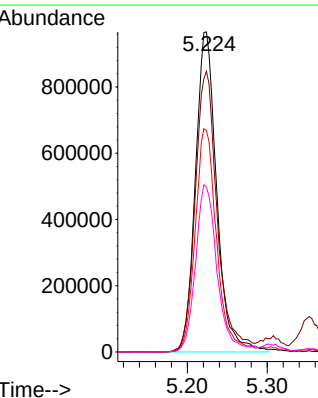
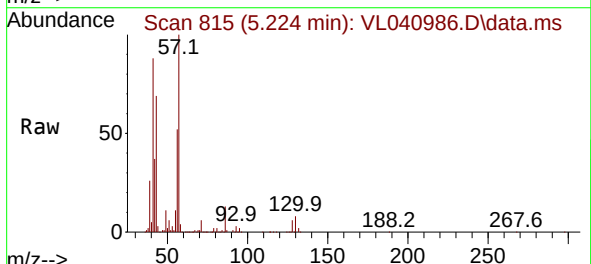
Ion Ratio Lower Upper

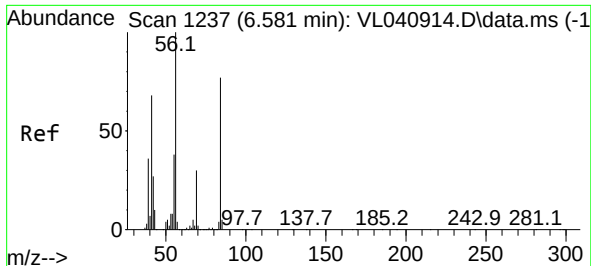
57 100

41 91.8 75.2 112.8

43 71.8 188.0 282.0

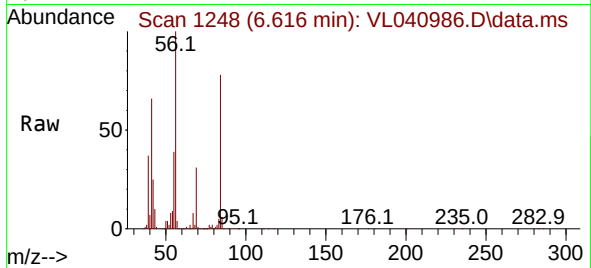
56 53.2 42.3 63.5





#30
Cyclohexane
Concen: 6.675 ppbv
RT: 6.616 min Scan# 1248
Delta R.T. 0.006 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

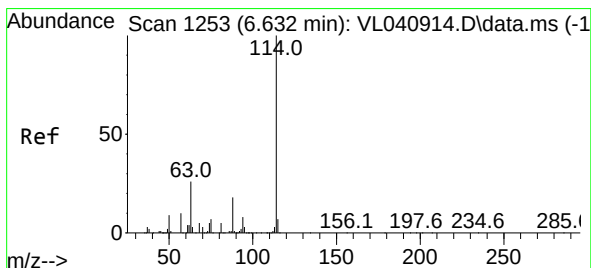
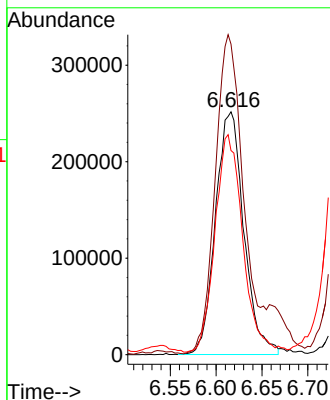
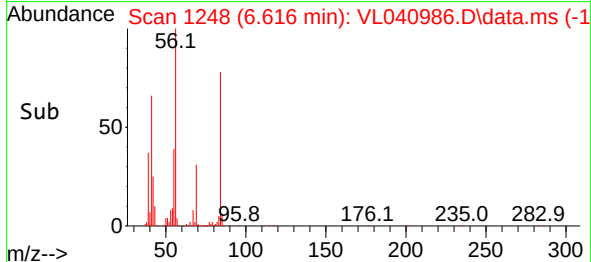
Instrument :
MSVOA_L
ClientSampleId :
OA1DL



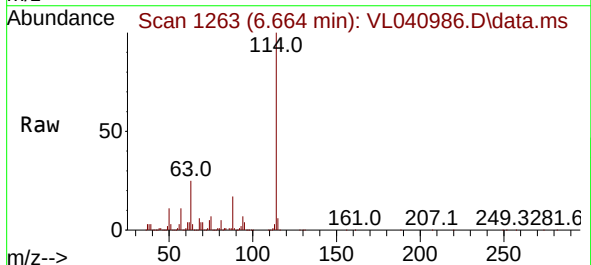
Tgt Ion: 84 Resp: 54097
Ion Ratio Lower Upper
84 100
56 144.1 111.4 167.2
41 88.8 70.0 105.0

Manual Integrations
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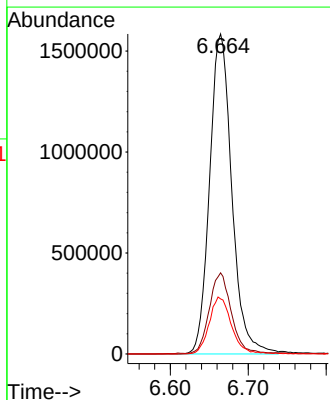
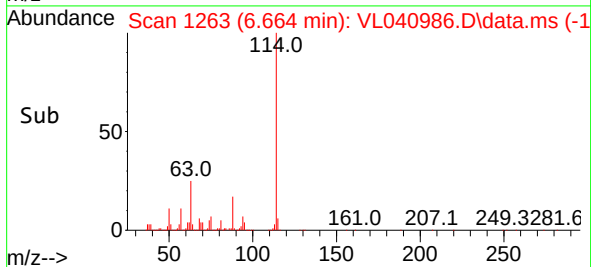
Reviewed By :Semsettin Yesilyurt 01/17/2024
Supervised By :Mahesh Dadoda 01/17/2024

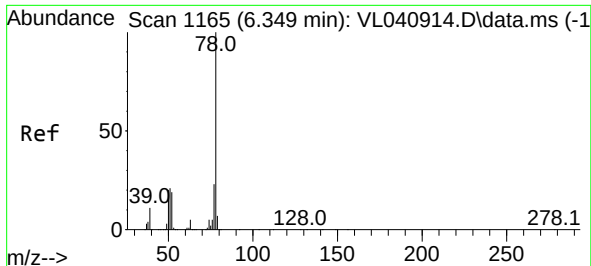


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.664 min Scan# 1263
Delta R.T. 0.003 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34



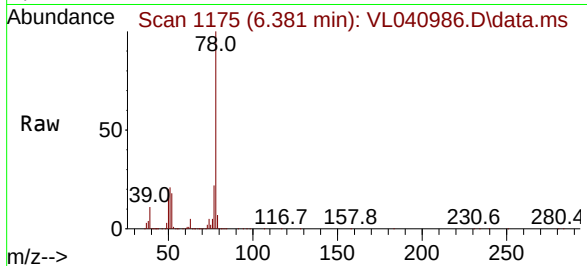
Tgt Ion:114 Resp: 3138326
Ion Ratio Lower Upper
114 100
63 25.7 21.0 31.6
88 17.9 14.3 21.5





#36
Benzene
Concen: 9.066 ppbv
RT: 6.381 min Scan# 1165
Delta R.T. 0.006 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

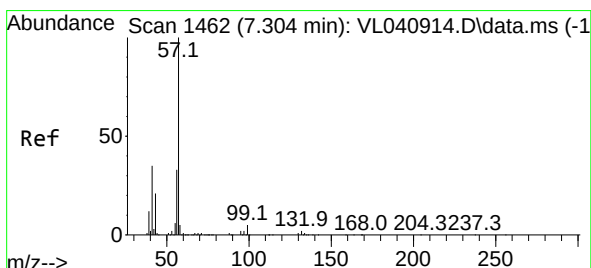
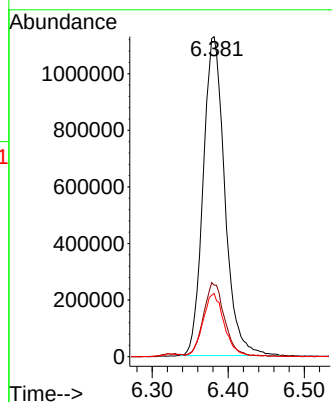
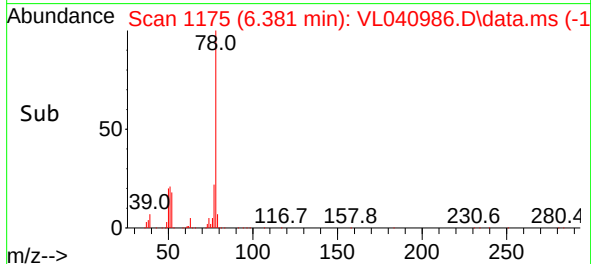
Instrument :
MSVOA_L
ClientSampleId :
OA1DL



Tgt Ion: 78 Resp: 222406
Ion Ratio Lower Upper
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77 22.2 18.4 27.6
50 19.7 16.0 24.0

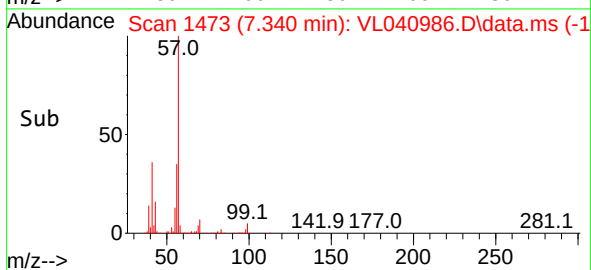
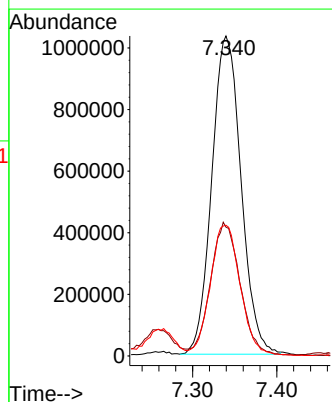
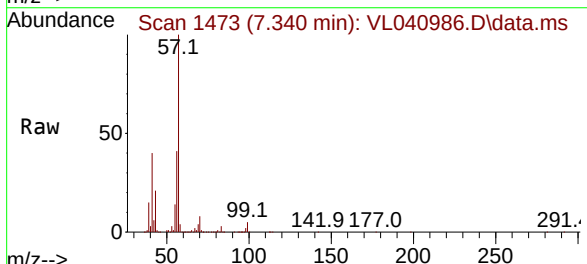
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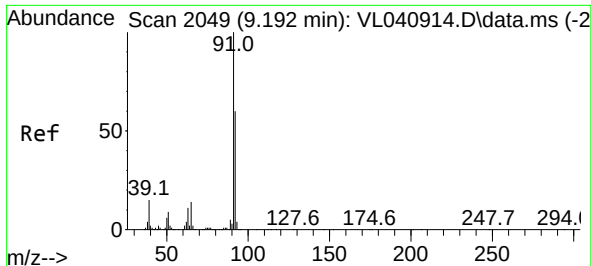
Reviewed By :Semsettin Yesilyurt 01/17/2024
Supervised By :Mahesh Dadoda 01/17/2024



#44
2,2,4-Trimethylpentane
Concen: 5.988 ppbv
RT: 7.340 min Scan# 1473
Delta R.T. 0.006 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

Tgt Ion: 57 Resp: 2495270
Ion Ratio Lower Upper
57 100
41 42.8 28.2 42.4#
56 42.3 25.3 37.9#





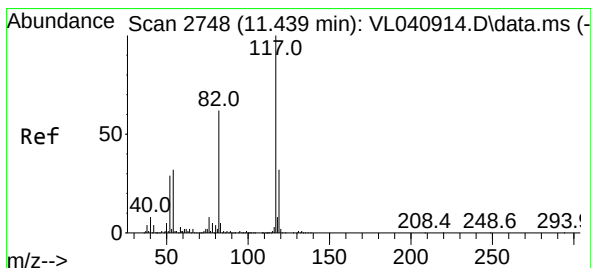
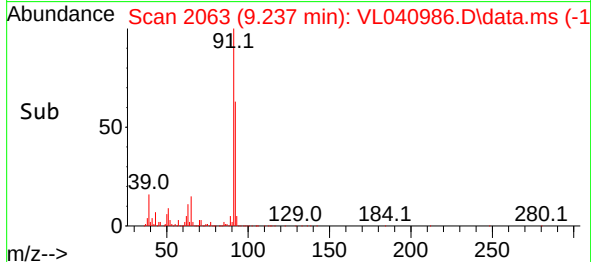
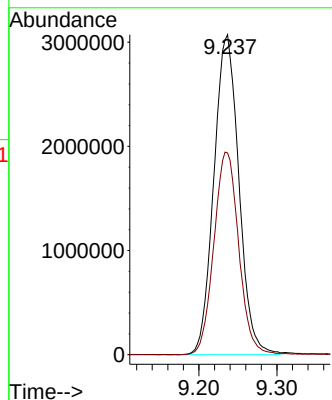
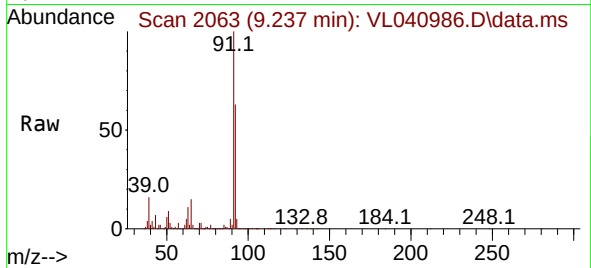
#53
Toluene
Concen: 25.148 ppbv
RT: 9.237 min Scan# 2049
Delta R.T. 0.006 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
OA1DL

Tgt Ion: 91 Resp: 684114
Ion Ratio Lower Upper
91 100
92 63.4 49.2 73.8

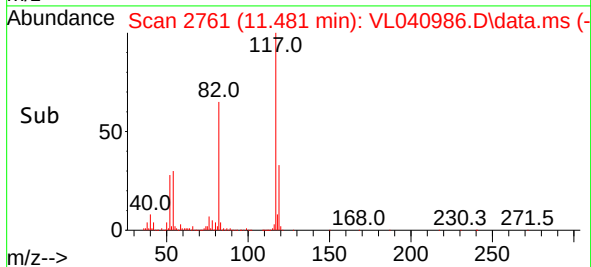
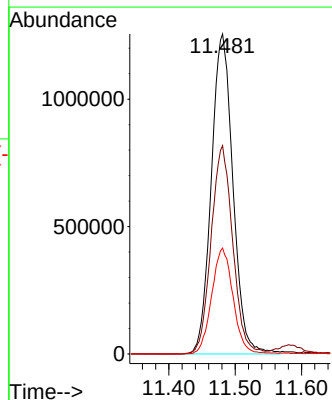
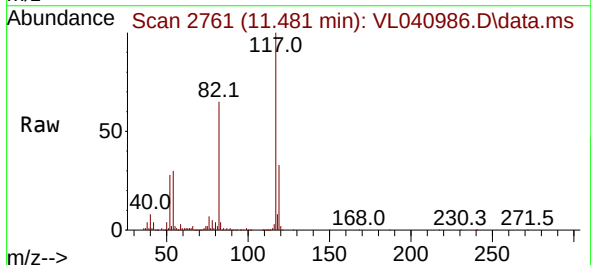
Manual Integrations
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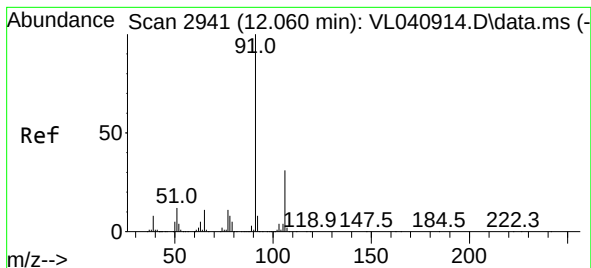
Reviewed By :Semsettin Yesilyurt 01/17/2024
Supervised By :Mahesh Dadoda 01/17/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. 0.003 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

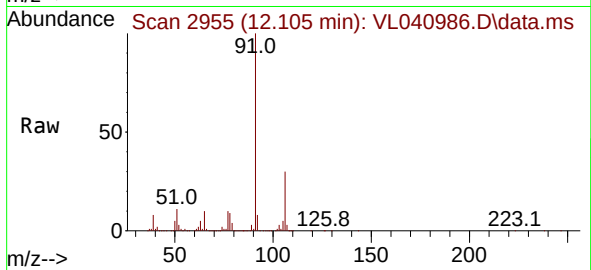
Tgt Ion:117 Resp: 2849907
Ion Ratio Lower Upper
117 100
82 65.1 49.6 74.4
119 32.9 23.4 35.0





#58
Ethyl Benzene
Concen: 5.781 ppbv
RT: 12.105 min Scan# 2941
Delta R.T. 0.006 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

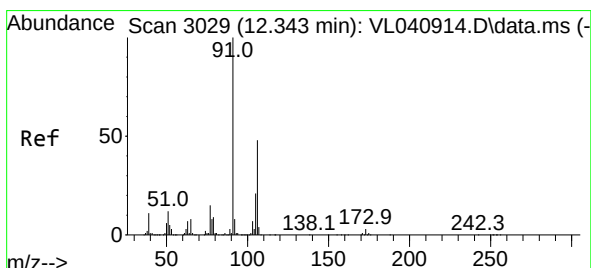
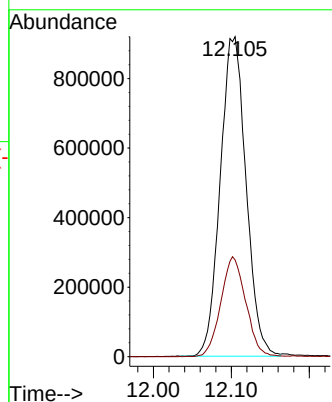
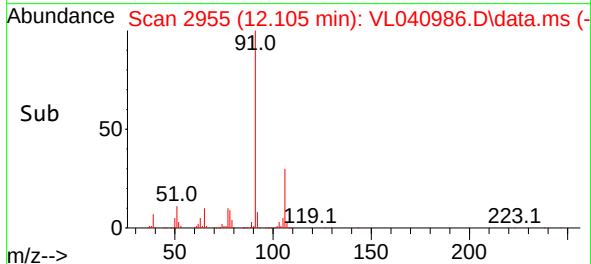
Instrument :
MSVOA_L
ClientSampleId :
OA1DL



Tgt Ion: 91 Resp: 2116238
Ion Ratio Lower Upper
91 100
106 30.3 24.9 37.3

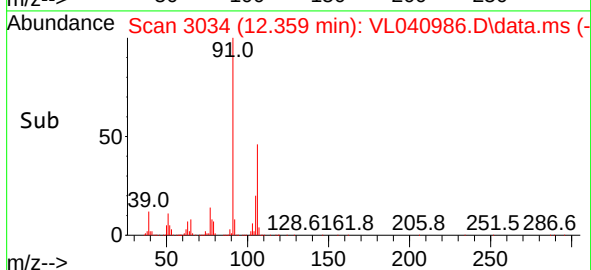
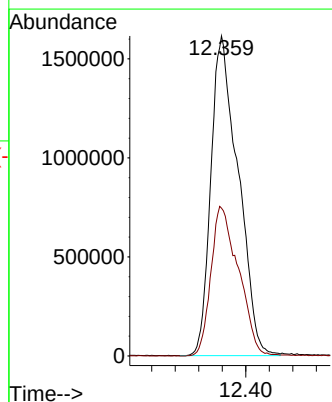
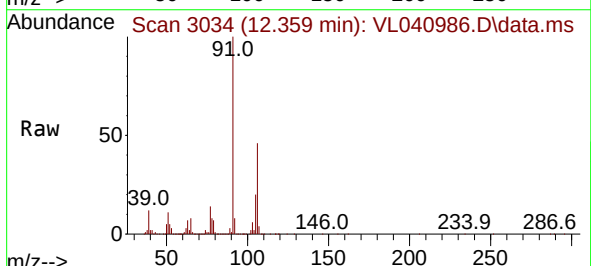
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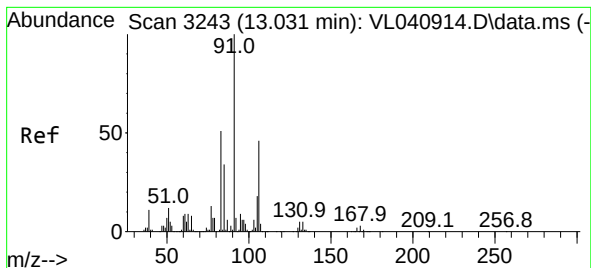
Reviewed By :Semsettin Yesilyurt 01/17/2024
Supervised By :Mahesh Dadoda 01/17/2024



#59
m/p-Xylene
Concen: 16.687 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. -0.026 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

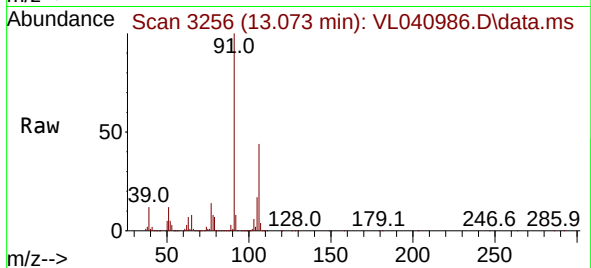
Tgt Ion: 91 Resp: 5195564
Ion Ratio Lower Upper
91 100
106 47.5 0.0 0.0#





#60
o-Xylene
Concen: 7.087 ppbv
RT: 13.073 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

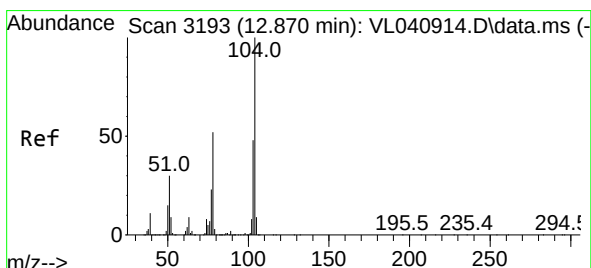
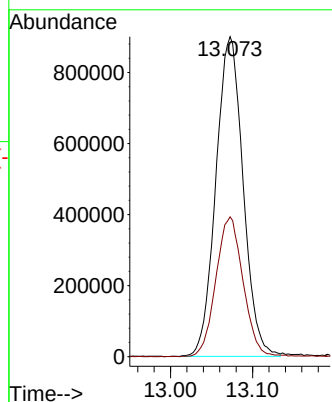
Instrument :
MSVOA_L
ClientSampleId :
OA1DL



Tgt Ion: 91 Resp: 2078979
Ion Ratio Lower Upper
91 100
106 43.9 22.6 67.7

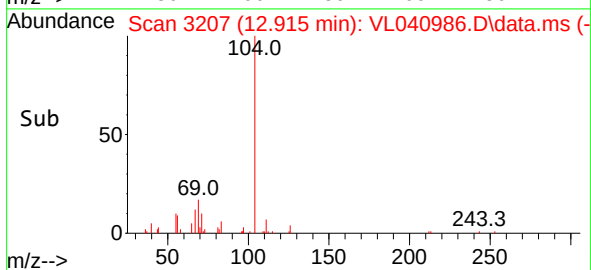
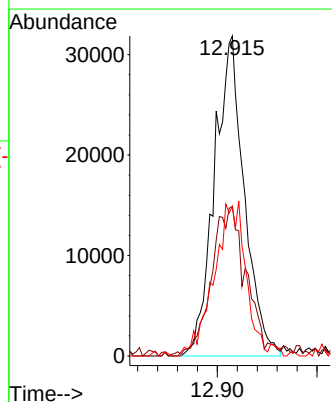
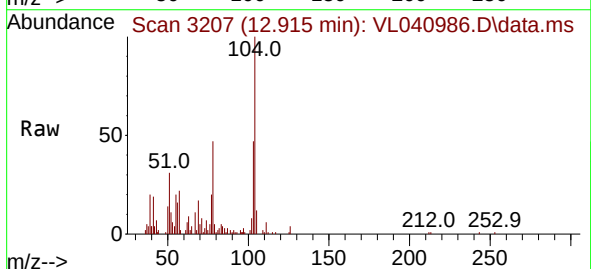
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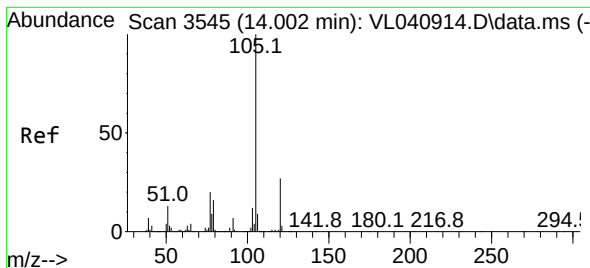
Reviewed By :Semsettin Yesilyurt 01/17/2024
Supervised By :Mahesh Dadoda 01/17/2024



#61
Styrene
Concen: 0.473 ppbv m
RT: 12.915 min Scan# 3207
Delta R.T. 0.003 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

Tgt Ion:104 Resp: 66011
Ion Ratio Lower Upper
104 100
78 56.4 43.0 64.4
103 52.7 37.6 56.4





#62

Isopropylbenzene

Concen: 1.016 ppbv

RT: 14.040 min Scan# 3

Delta R.T. 0.000 min

Lab File: VL040986.D

Acq: 16 Jan 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

OA1DL

Tgt Ion:105 Resp: 442144

Ion Ratio Lower Upper

105 100

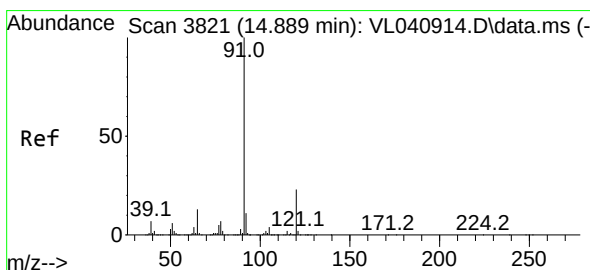
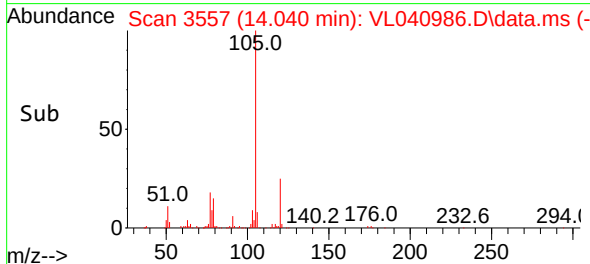
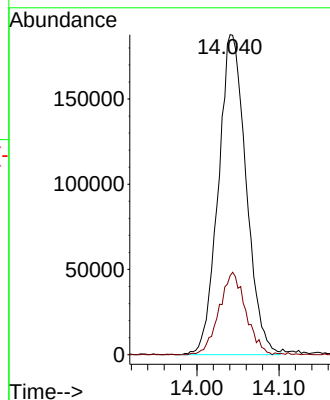
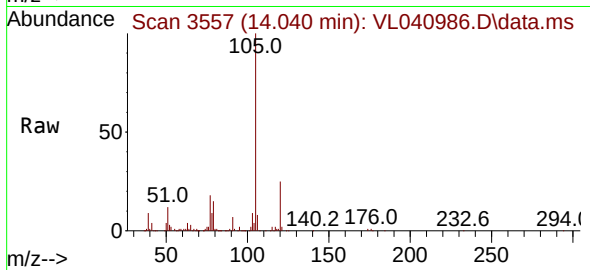
120 24.9 20.7 31.1

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Reviewed By :Semsettin Yesilyurt 01/17/2024

Supervised By :Mahesh Dadoda 01/17/2024



#64

n-propylbenzene

Concen: 0.955 ppbv

RT: 14.934 min Scan# 3835

Delta R.T. 0.003 min

Lab File: VL040986.D

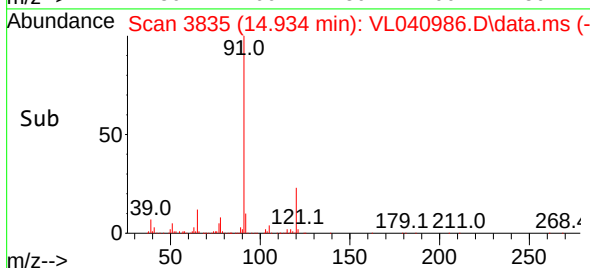
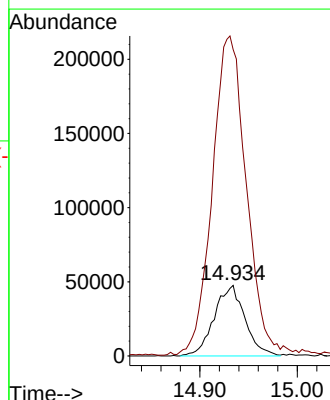
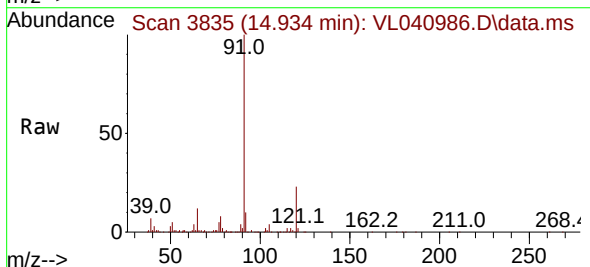
Acq: 16 Jan 2024 14:34

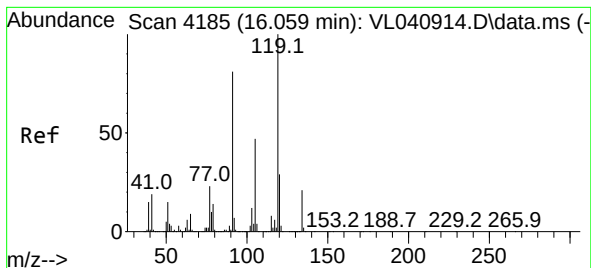
Tgt Ion:120 Resp: 104224

Ion Ratio Lower Upper

120 100

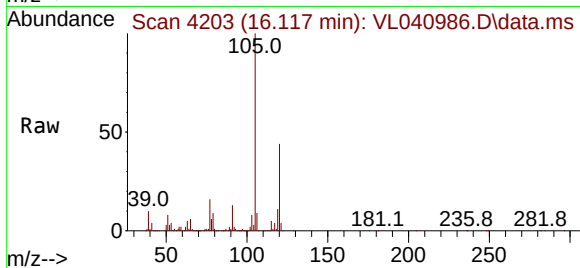
91 501.6 381.9 572.9





#65
tert-Butylbenzene
Concen: 0.491 ppbv
RT: 16.117 min Scan# 4185
Delta R.T. 0.013 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

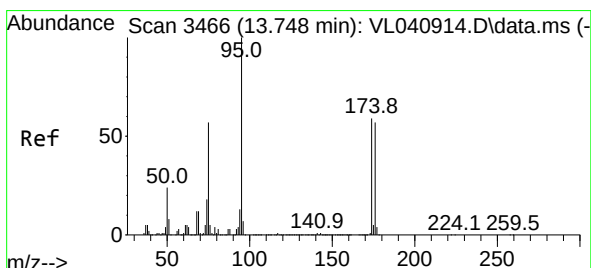
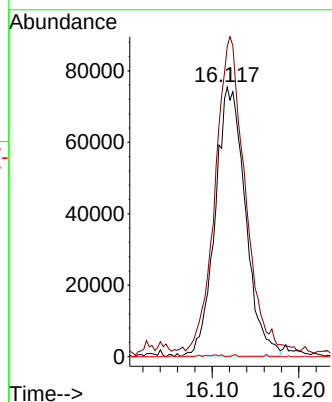
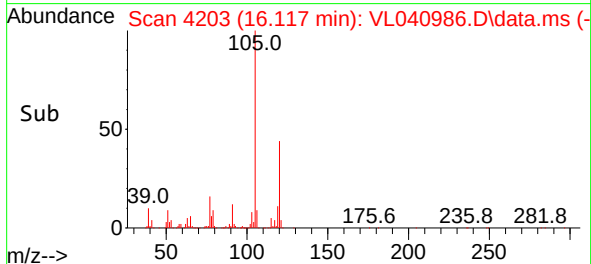
Instrument :
MSVOA_L
ClientSampleId :
OA1DL



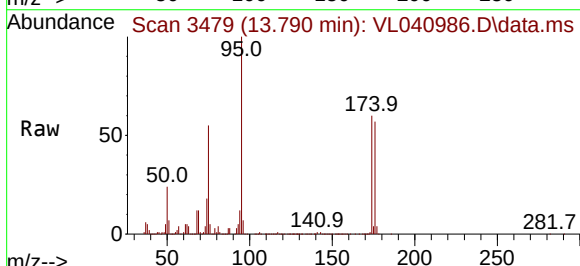
Tgt Ion: 119 Resp: 18165
Ion Ratio Lower Upper
119 100
91 120.7 67.2 100.8
134 0.5 15.8 23.6

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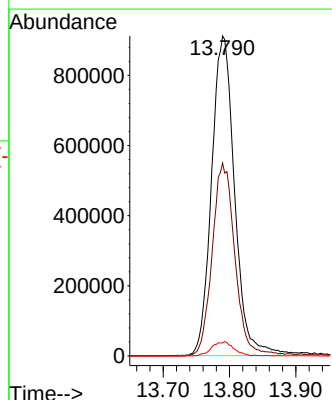
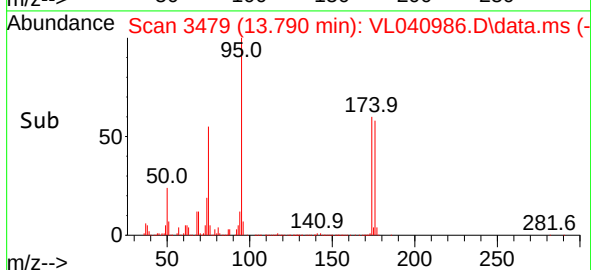
Reviewed By :Semsettin Yesilyurt 01/17/2024
Supervised By :Mahesh Dadoda 01/17/2024

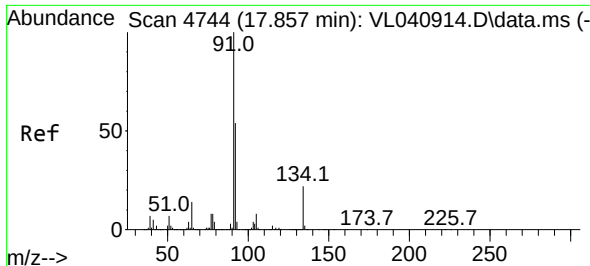


#68
1-Bromo-4-Fluorobenzene
Concen: 10.443 ppbv
RT: 13.790 min Scan# 3479
Delta R.T. 0.000 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34



Tgt Ion: 95 Resp: 2192244
Ion Ratio Lower Upper
95 100
174 60.6 48.0 72.0
175 4.4 3.7 5.5





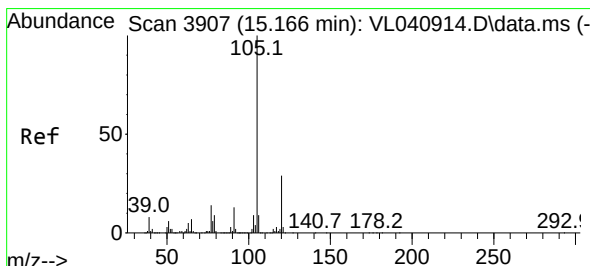
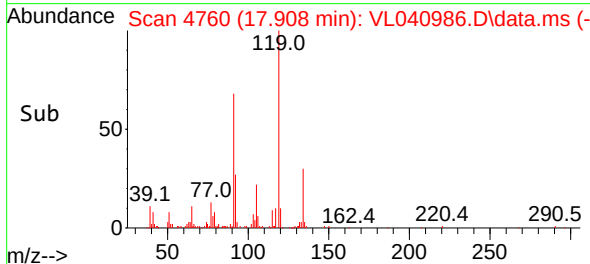
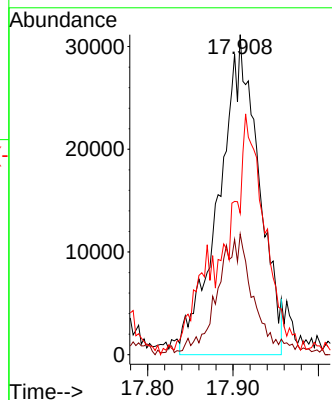
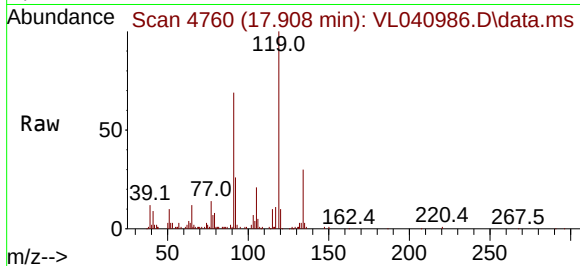
#70
n-Butylbenzene
Concen: 0.233 ppbv m
RT: 17.908 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
OA1DL

Tgt Ion: 91 Resp: 10099
Ion Ratio Lower Upper
91 100
92 0.0 43.4 65.0
134 0.0 17.6 26.4

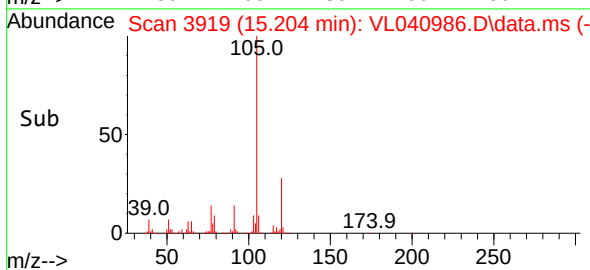
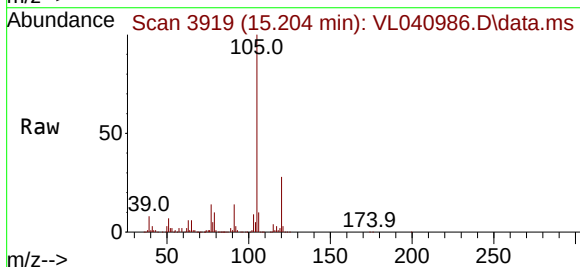
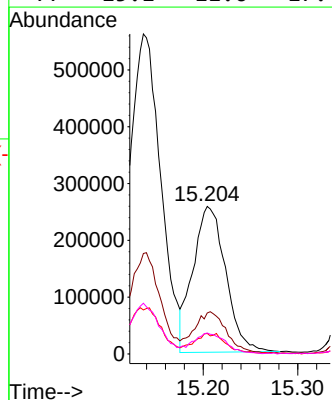
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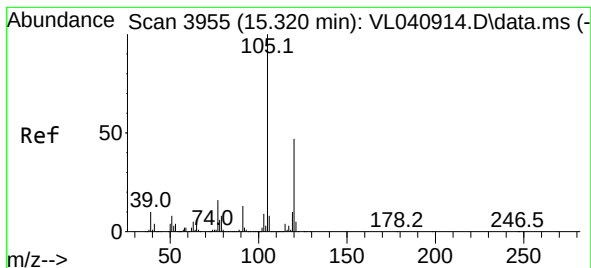
Reviewed By :Semsettin Yesilyurt 01/17/2024
Supervised By :Mahesh Dadoda 01/17/2024



#72
4-Ethyltoluene
Concen: 1.921 ppbv
RT: 15.204 min Scan# 3919
Delta R.T. 0.000 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

Tgt Ion:105 Resp: 618504
Ion Ratio Lower Upper
105 100
120 27.9 23.8 35.8
91 14.2 10.9 16.3
77 15.1 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 1.732 ppbv

RT: 15.365 min Scan# 3955

Delta R.T. 0.003 min

Lab File: VL040986.D

Acq: 16 Jan 2024 14:34

Instrument :

MSVOA_L

ClientSampleId :

OA1DL

Tgt Ion:105 Resp: 481290

Ion Ratio Lower Upper

105 100

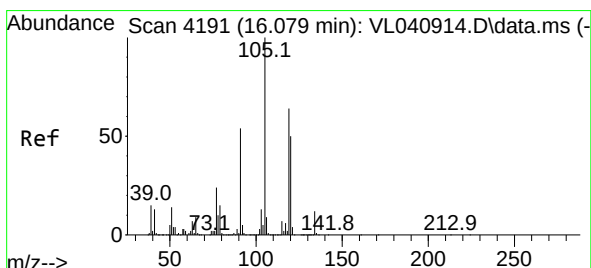
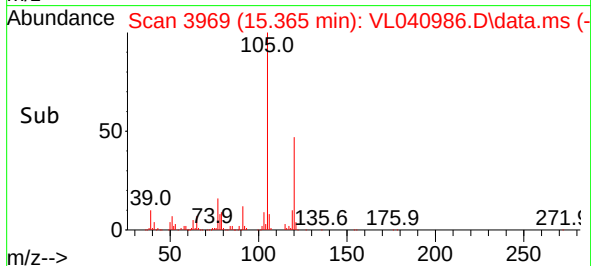
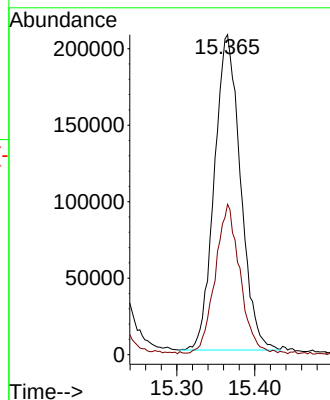
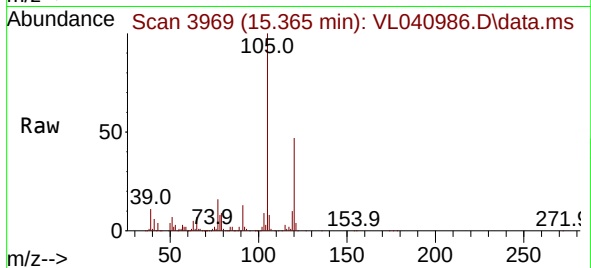
120 46.6 37.8 56.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/17/2024

Supervised By :Mahesh Dadoda 01/17/2024



#74

1,2,4-Trimethylbenzene

Concen: 5.568 ppbv

RT: 16.121 min Scan# 4204

Delta R.T. 0.000 min

Lab File: VL040986.D

Acq: 16 Jan 2024 14:34

Tgt Ion:105 Resp: 1721924

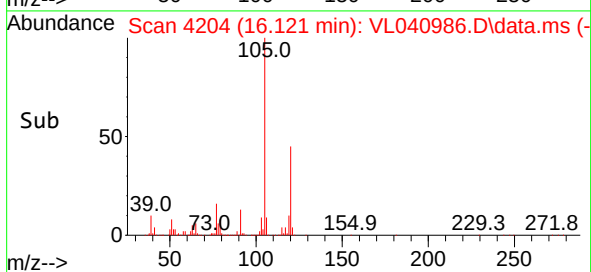
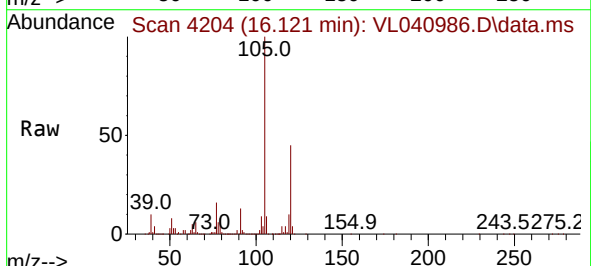
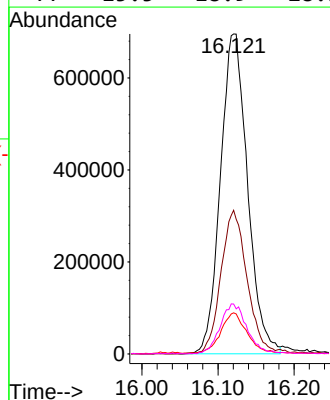
Ion Ratio Lower Upper

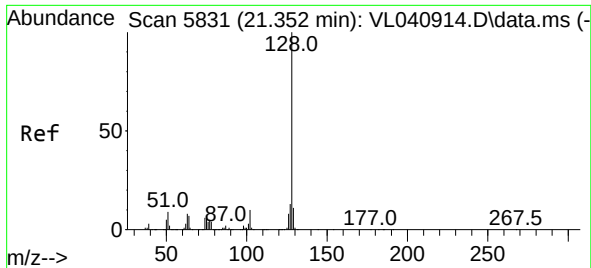
105 100

120 44.9 40.2 60.4

91 12.6 43.0 64.6#

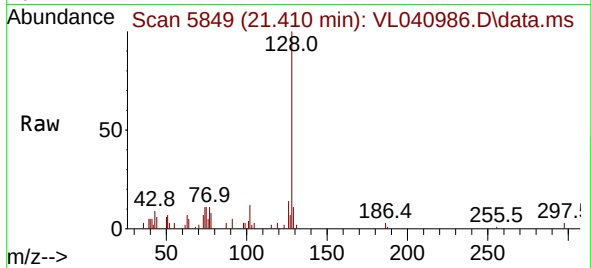
77 15.5 18.9 28.3#





#79
Naphthalene
Concen: 0.172 ppbv m
RT: 21.410 min Scan# 5849
Delta R.T. 0.006 min
Lab File: VL040986.D
Acq: 16 Jan 2024 14:34

Instrument :
MSVOA_L
ClientSampleId :
OA1DL



Tgt Ion:128 Resp: 25702
Ion Ratio Lower Upper
128 100
127 7.4 10.6 15.8
129 11.1 8.7 13.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/17/2024
Supervised By :Mahesh Dadoda 01/17/2024

