

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112723\
 Data File : VL040908.D
 Acq On : 27 Nov 2023 15:11
 Operator : SY/MD
 Sample : 05520-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/28/2023
 Supervised By : Mahesh Dadoda 11/28/2023

Quant Time: Nov 28 04:38:34 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

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

QLast Update : Tue Nov 28 04:31:59 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.227	49	1182319	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.680	114	2941173	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2490722	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1881677	9.649	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
9) Propene	2.745	41	159672	2.510	ppbv	97
10) Heptane	7.603	43	15628m	0.100	ppbv	
13) Ethanol	3.298	45	69608	5.635	ppbv #	100
15) Acetone	3.517	43	420457	3.339	ppbv	90
17) tert-Butyl alcohol	3.935	59	26557	0.247	ppbv #	92
19) Isopropyl Alcohol	3.632	45	17971m	0.237	ppbv	
20) Methylene Chloride	3.976	84	177386	3.413	ppbv	94
26) Hexane	5.246	57	100209	0.868	ppbv #	50
27) Carbon Disulfide	4.166	76	14623m	0.100	ppbv	
34) 2-Butanone	4.828	43	611948	4.084	ppbv	98
44) 2,2,4-Trimethylpentane	7.352	57	188581	0.476	ppbv #	88
50) 4-Methyl-2-Pentanone	8.224	43	24756m	0.107	ppbv	
51) 2-Hexanone	9.584	43	85725m	0.524	ppbv	
52) Tetrachloroethene	10.629	164	2426m	0.030	ppbv	
53) Toluene	9.243	91	205440	0.782	ppbv	98
58) Ethyl Benzene	12.105	91	102454	0.315	ppbv	90
59) m/p-Xylene	12.355	91	329562m	1.191	ppbv	
60) o-Xylene	13.076	91	113463	0.431	ppbv	99
62) Isopropylbenzene	14.043	105	58982m	0.152	ppbv	
72) 4-Ethyltoluene	15.204	105	45599	0.157	ppbv #	96
73) 1,3,5-Trimethylbenzene	15.371	105	32287m	0.126	ppbv	
74) 1,2,4-Trimethylbenzene	16.121	105	84732m	0.296	ppbv	

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

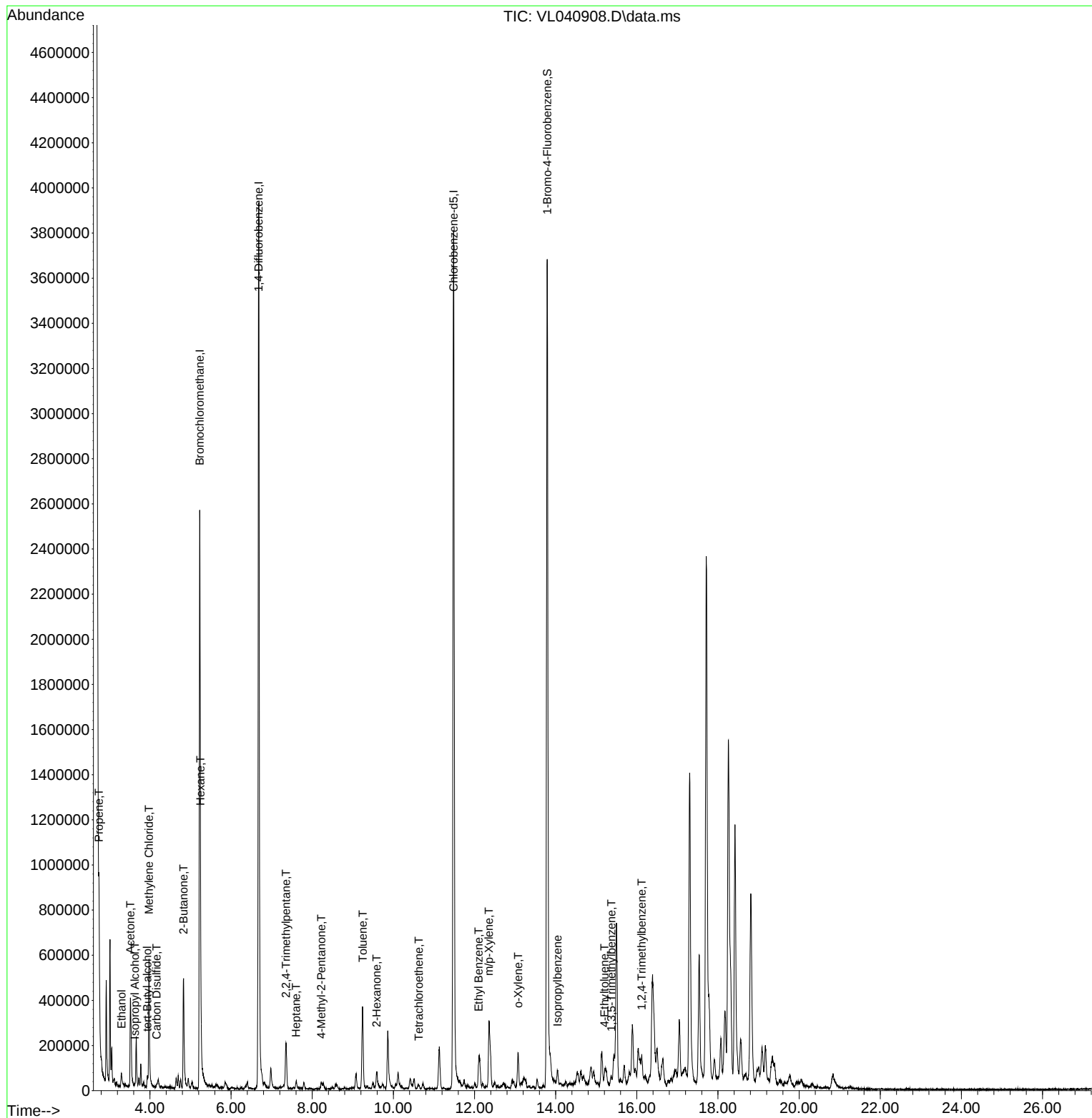
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112723\
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Response via : Initial Calibration

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APPROVED

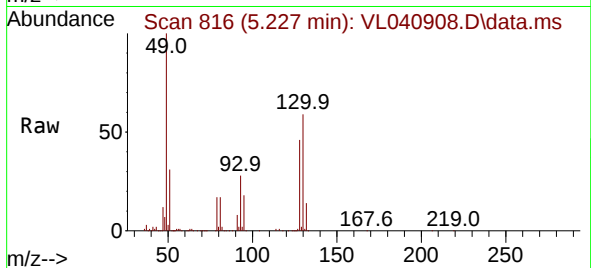
Reviewed By : Semsettin Yesilyurt 11/28/2023
Supervised By : Mahesh Dadoda 11/28/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.227 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

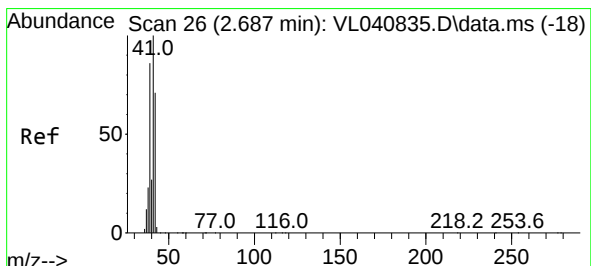
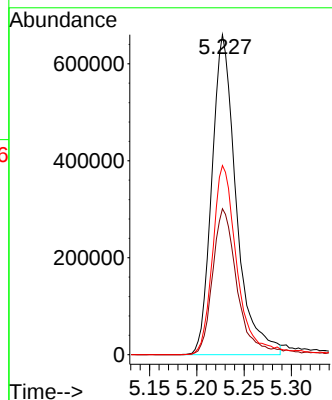
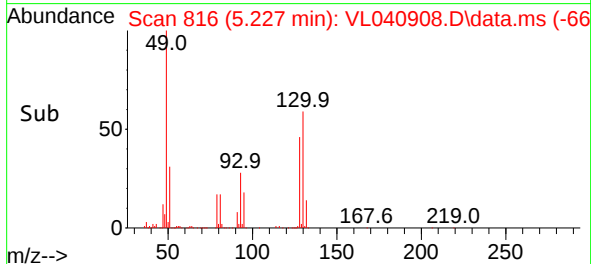
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 49 Resp: 1182319
Ion Ratio Lower Upper
49 100
128 47.0 23.8 71.2
130 61.3 30.9 92.8

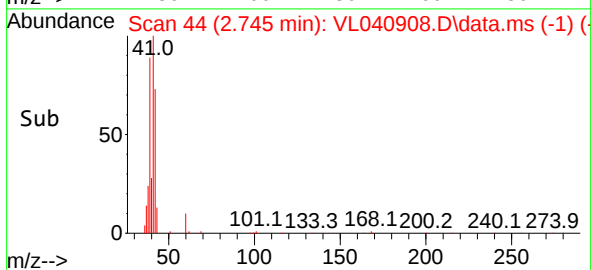
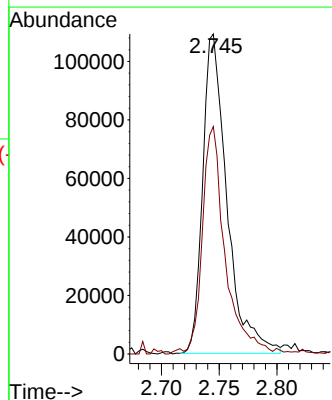
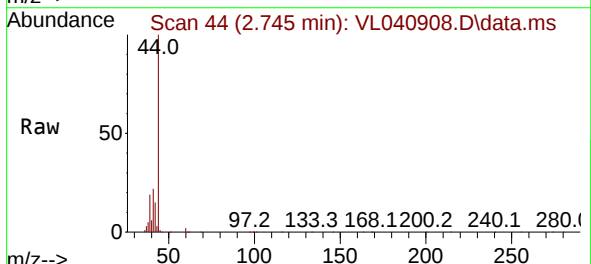
Manual Integrations
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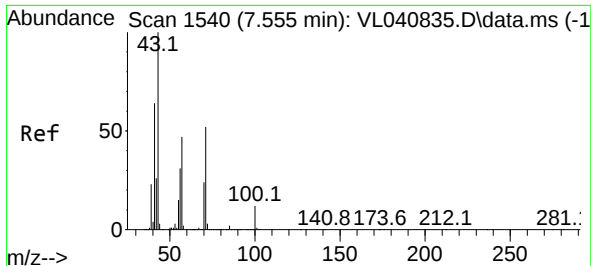
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#9
Propene
Concen: 2.510 ppbv
RT: 2.745 min Scan# 44
Delta R.T. -0.003 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

Tgt Ion: 41 Resp: 159672
Ion Ratio Lower Upper
41 100
42 68.0 56.5 84.7





#10

Heptane

Concen: 0.100 ppbv m

RT: 7.603 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion: 43 Resp: 15628

Ion Ratio Lower Upper

43 100

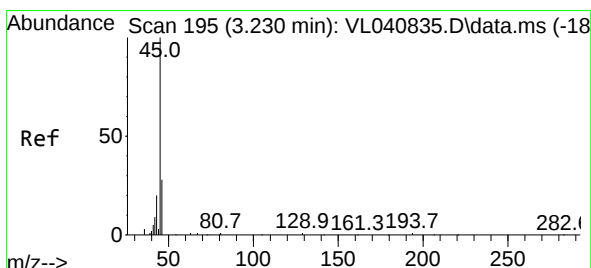
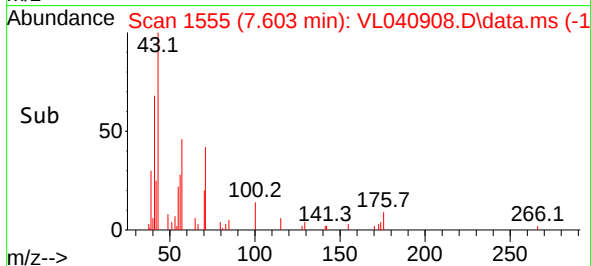
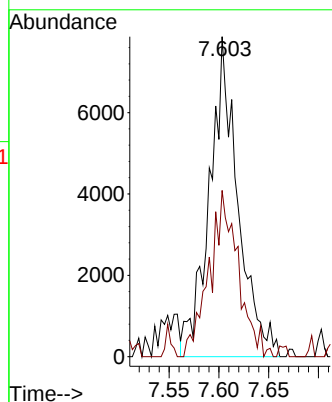
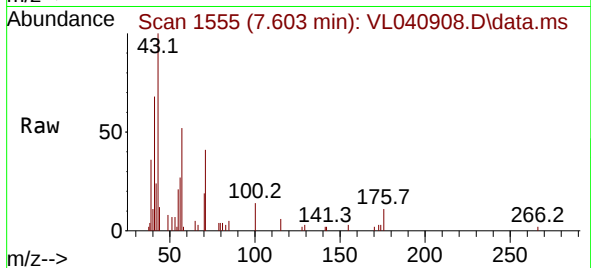
57 54.3 39.4 59.0

Manual Integrations

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Supervised By :Mahesh Dadoda 11/28/2023



#13

Ethanol

Concen: 5.635 ppbv

RT: 3.298 min Scan# 216

Delta R.T. 0.010 min

Lab File: VL040908.D

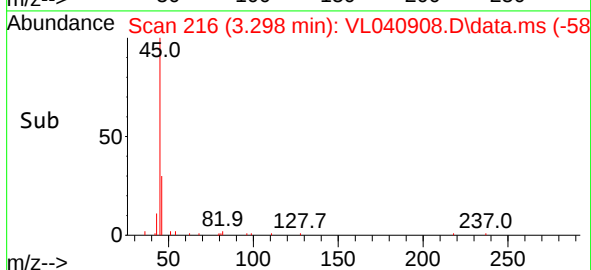
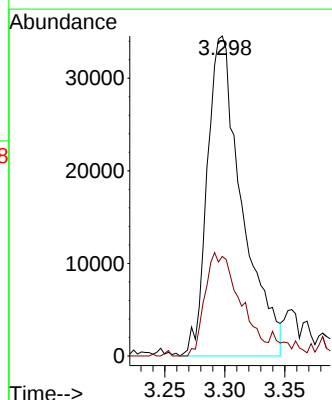
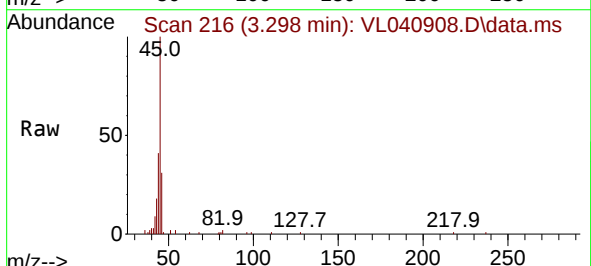
Acq: 27 Nov 2023 15:11

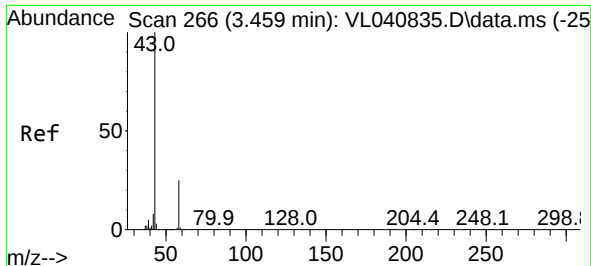
Tgt Ion: 45 Resp: 69608

Ion Ratio Lower Upper

45 100

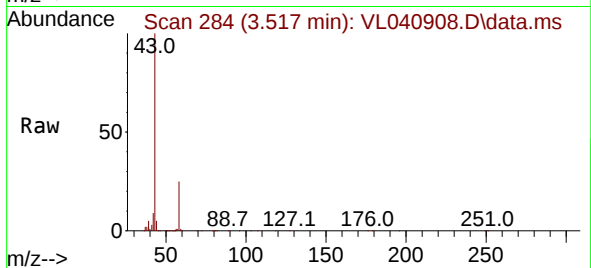
46 40.8 0.0 0.0#





#15
Acetone
Concen: 3.339 ppbv
RT: 3.517 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

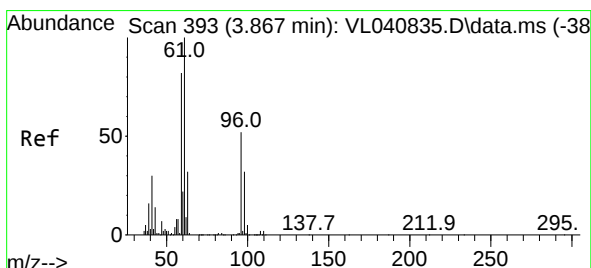
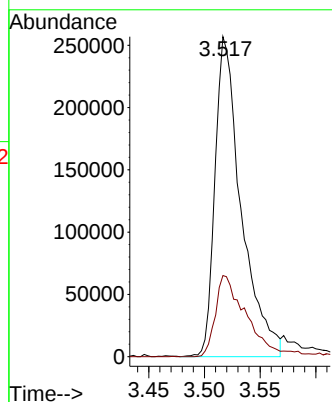
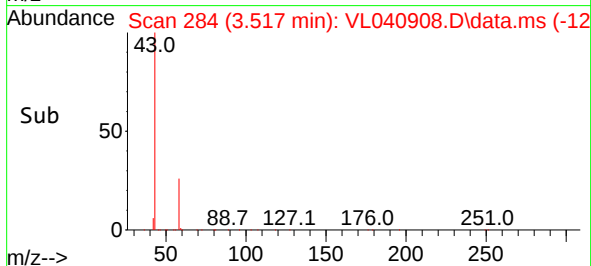
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 43 Resp: 42045
Ion Ratio Lower Upper
43 100
58 31.2 20.9 31.3

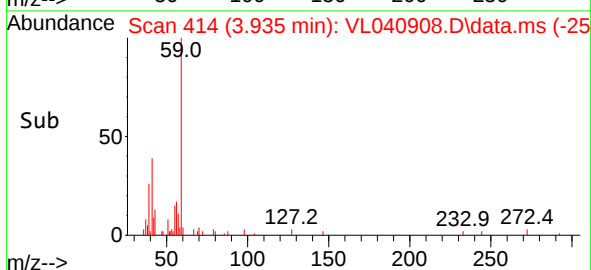
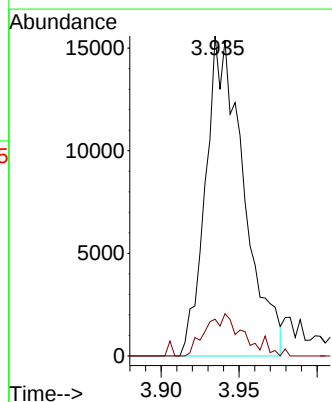
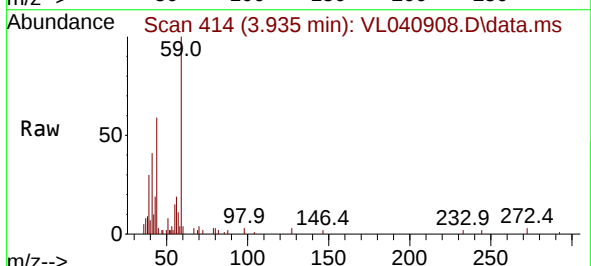
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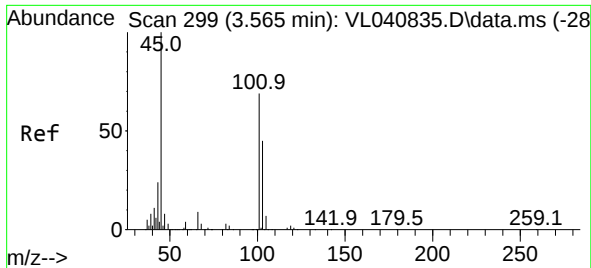
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#17
tert-Butyl alcohol
Concen: 0.247 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.013 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

Tgt Ion: 59 Resp: 26557
Ion Ratio Lower Upper
59 100
57 14.1 9.0 13.4#





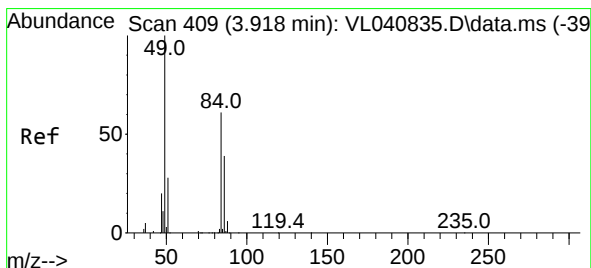
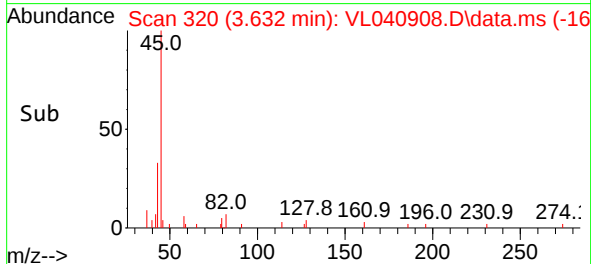
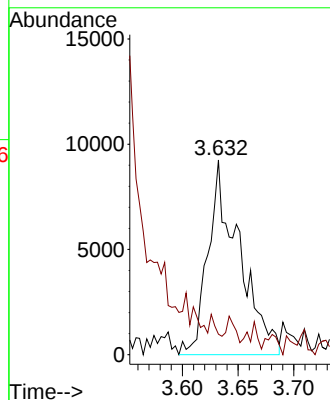
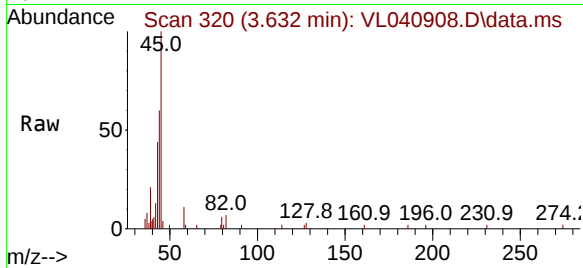
#19
Isopropyl Alcohol
Concen: 0.237 ppbv m
RT: 3.632 min Scan# 31
Delta R.T. 0.013 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 45 Resp: 1797
Ion Ratio Lower Upper
45 100
58 0.0 1.6 2.4

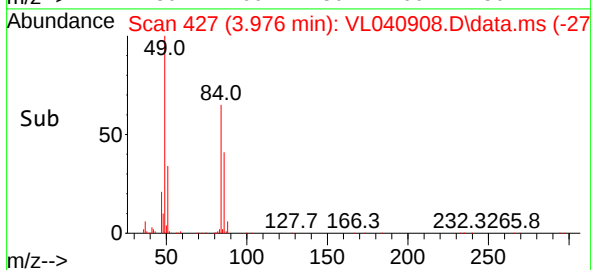
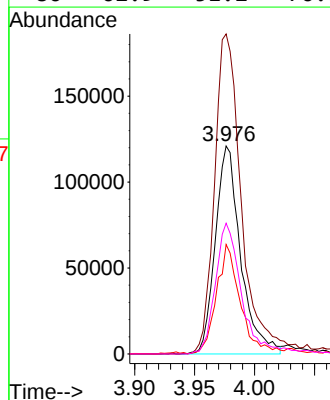
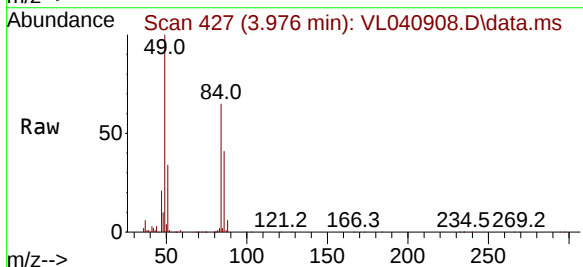
Manual Integrations
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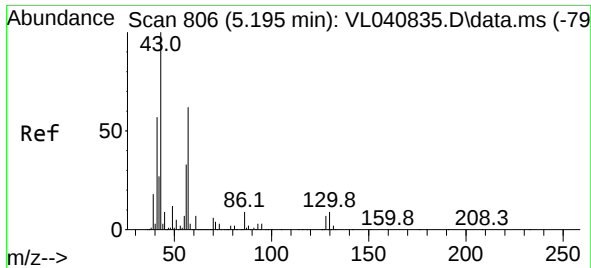
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#20
Methylene Chloride
Concen: 3.413 ppbv
RT: 3.976 min Scan# 427
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

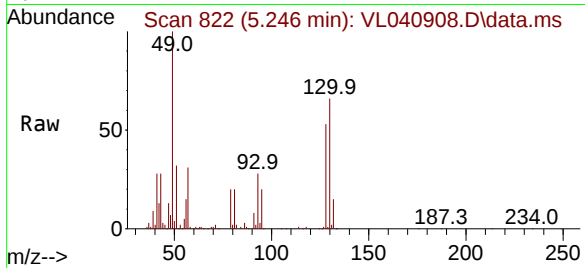
Tgt Ion: 84 Resp: 177386
Ion Ratio Lower Upper
84 100
49 153.9 131.0 196.4
51 51.9 36.9 55.3
86 62.9 51.2 76.8





#26
Hexane
Concen: 0.868 ppbv
RT: 5.246 min Scan# 811
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

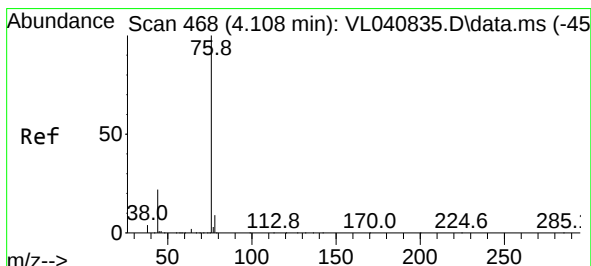
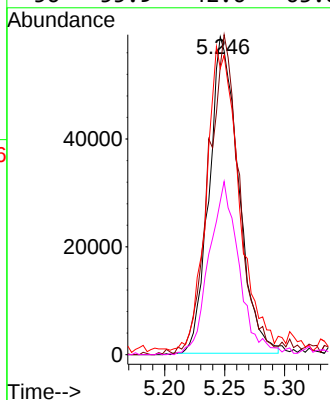
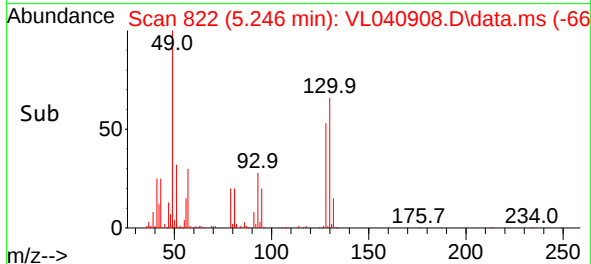
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



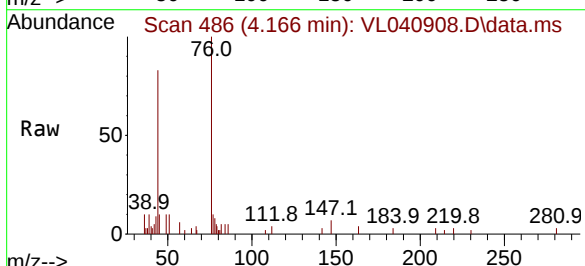
Tgt Ion: 57 Resp: 100209
Ion Ratio Lower Upper
57 100
41 108.1 75.4 113.0
43 106.7 185.9 278.9
56 55.9 42.6 63.8

Manual Integrations
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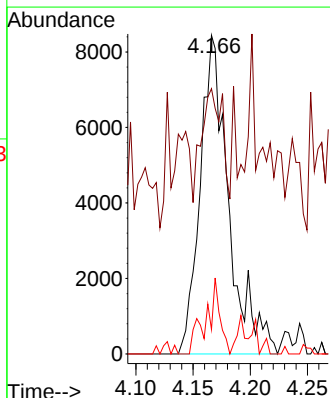
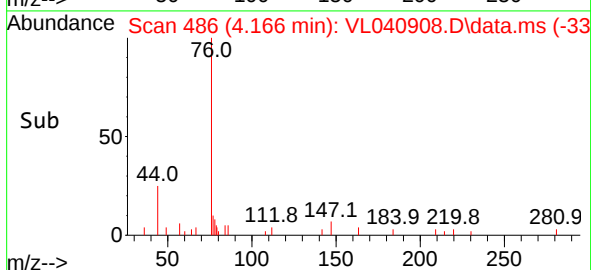
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

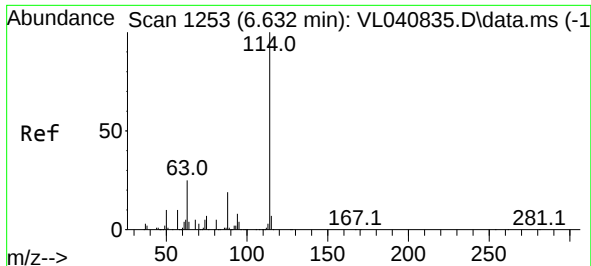


#27
Carbon Disulfide
Concen: 0.100 ppbv m
RT: 4.166 min Scan# 486
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11



Tgt Ion: 76 Resp: 14623
Ion Ratio Lower Upper
76 100
44 63.4 16.7 25.1#
78 18.1 7.6 11.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.680 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion:114 Resp: 294117

Ion Ratio Lower Upper

114 100

63 25.6 20.9 31.3

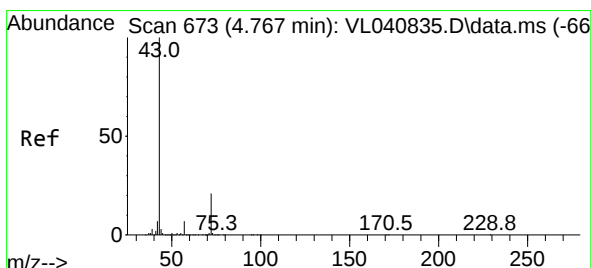
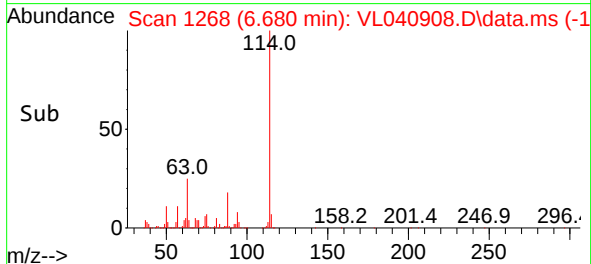
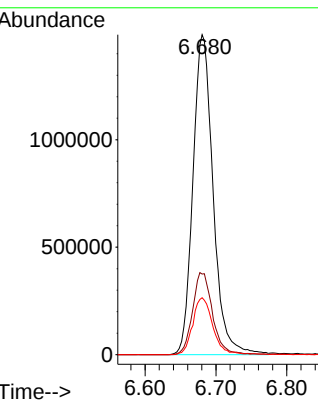
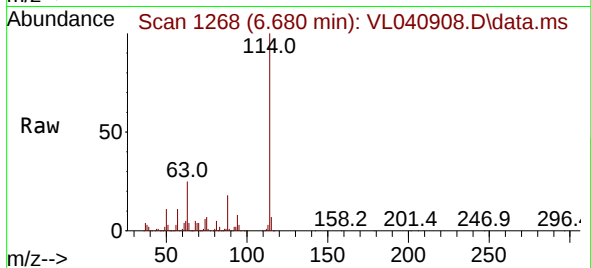
88 17.8 14.3 21.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#34

2-Butanone

Concen: 4.084 ppbv

RT: 4.828 min Scan# 692

Delta R.T. 0.006 min

Lab File: VL040908.D

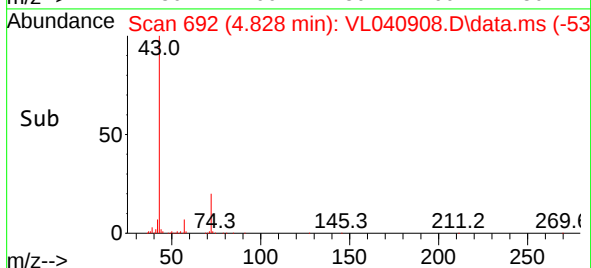
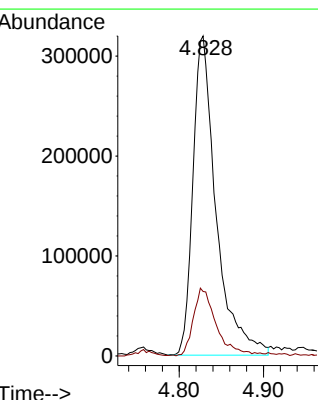
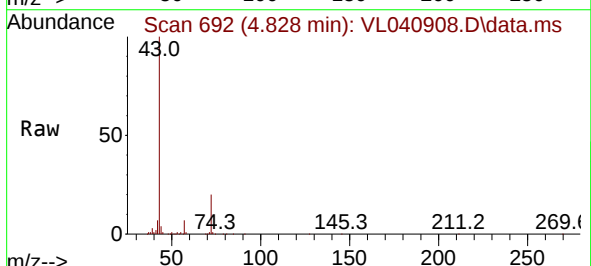
Acq: 27 Nov 2023 15:11

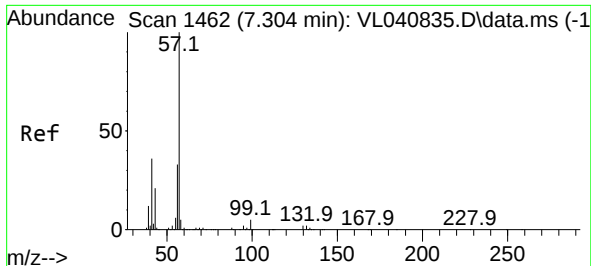
Tgt Ion: 43 Resp: 611948

Ion Ratio Lower Upper

43 100

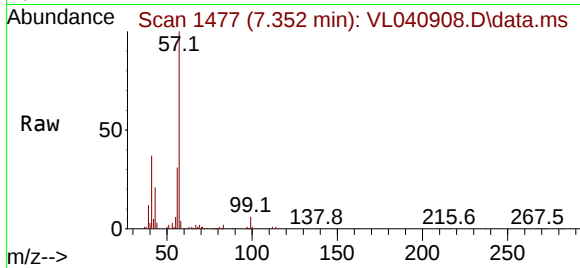
72 22.4 17.2 25.8





#44
2,2,4-Trimethylpentane
Concen: 0.476 ppbv
RT: 7.352 min Scan# 1462
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

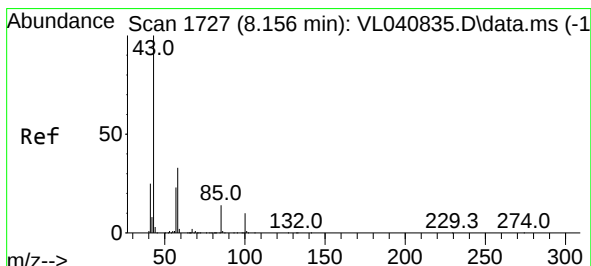
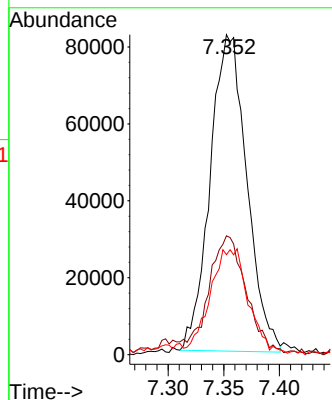
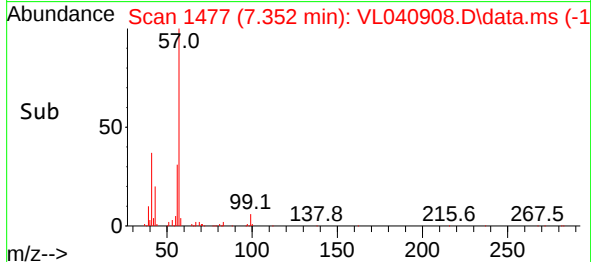
Instrument :
MSVOA_L
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SV1DL



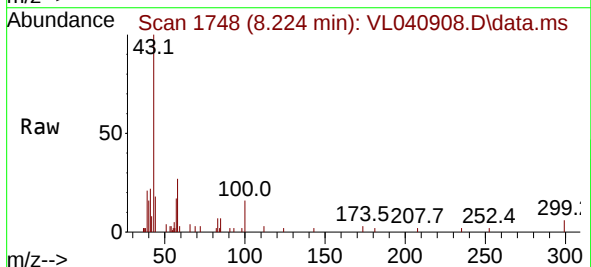
Tgt Ion: 57 Resp: 18858
Ion Ratio Lower Upper
57 100
41 42.6 29.0 43.6
56 38.6 25.2 37.8

Manual Integrations
APPROVED

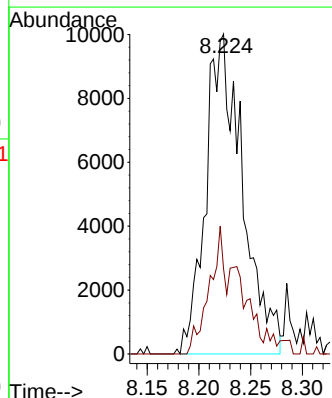
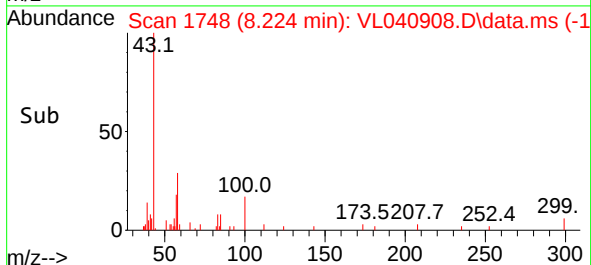
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

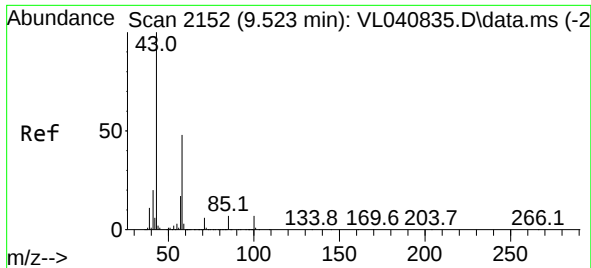


#50
4-Methyl-2-Pentanone
Concen: 0.107 ppbv m
RT: 8.224 min Scan# 1748
Delta R.T. 0.022 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11



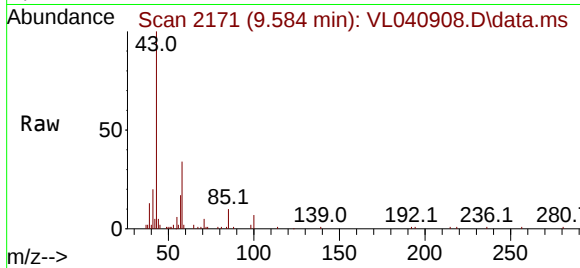
Tgt Ion: 43 Resp: 24756
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.6





#51
2-Hexanone
Concen: 0.524 ppbv m
RT: 9.584 min Scan# 2152
Delta R.T. 0.013 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

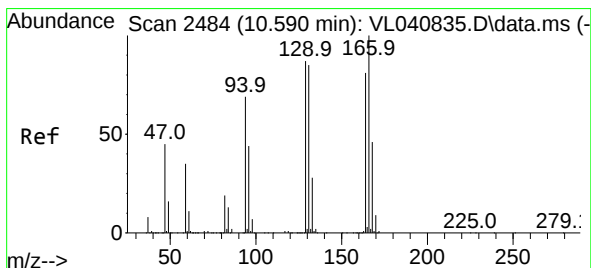
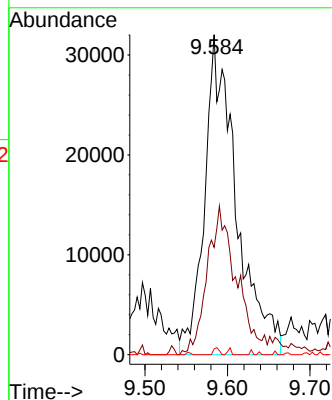
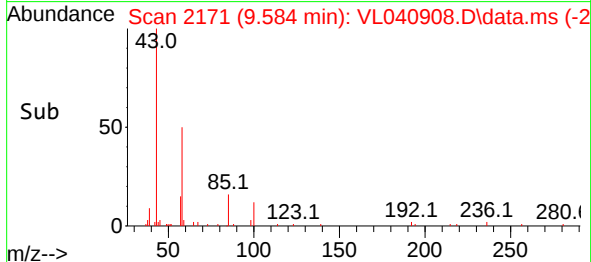
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 43 Resp: 85725
Ion Ratio Lower Upper
43 100
58 0.0 37.4 56.2
98 0.0 0.2 0.2

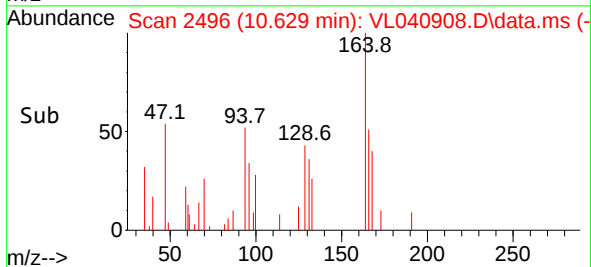
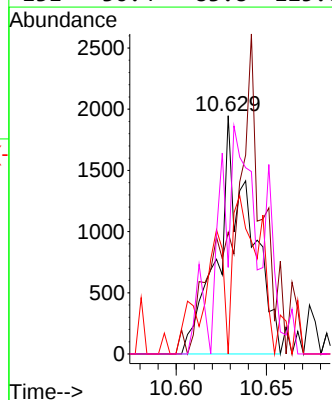
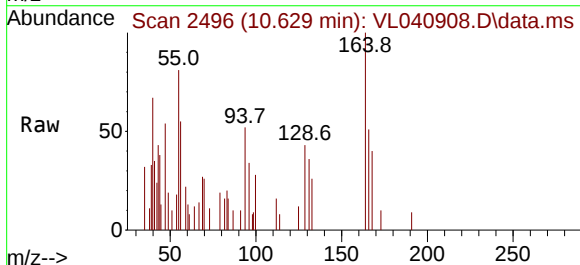
Manual Integrations
APPROVED

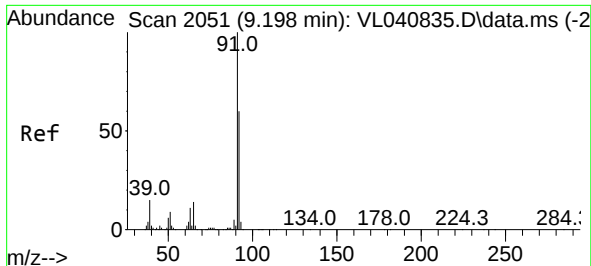
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#52
Tetrachloroethene
Concen: 0.030 ppbv m
RT: 10.629 min Scan# 2496
Delta R.T. -0.003 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

Tgt Ion:164 Resp: 2426
Ion Ratio Lower Upper
164 100
166 51.1 98.3 147.5#
129 0.0 85.1 127.7#
131 36.4 83.8 125.6#





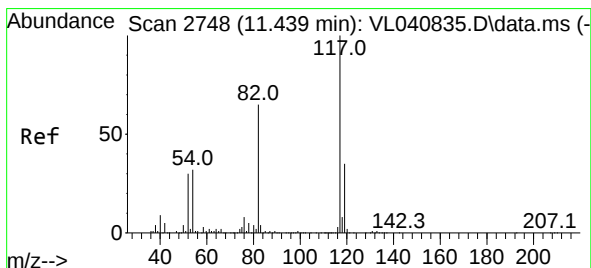
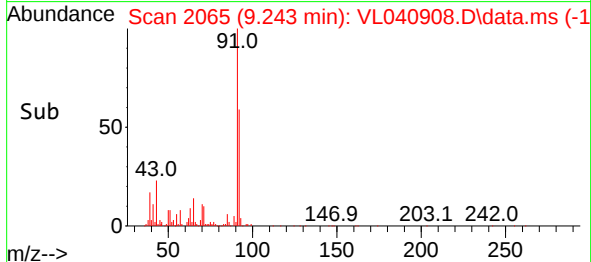
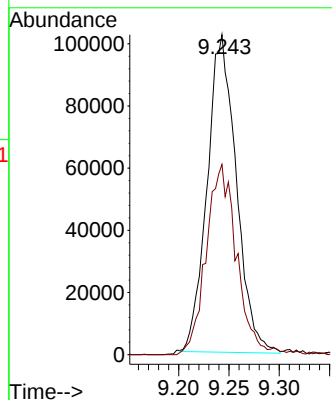
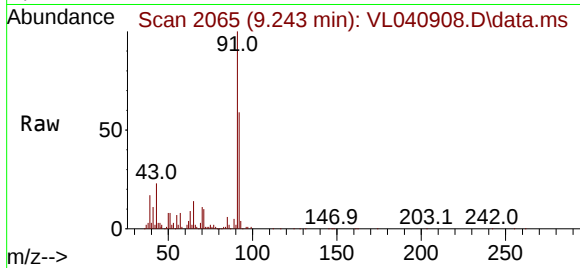
#53
Toluene
Concen: 0.782 ppbv
RT: 9.243 min Scan# 2054
Delta R.T. 0.003 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 91 Resp: 205440
Ion Ratio Lower Upper
91 100
92 63.2 49.4 74.2

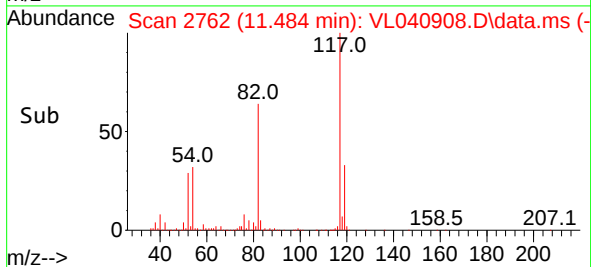
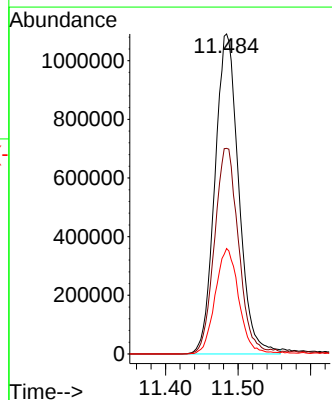
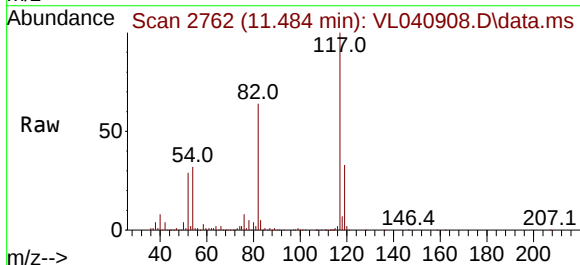
Manual Integrations
APPROVED

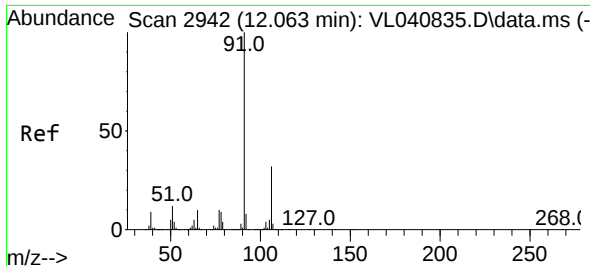
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 2762
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

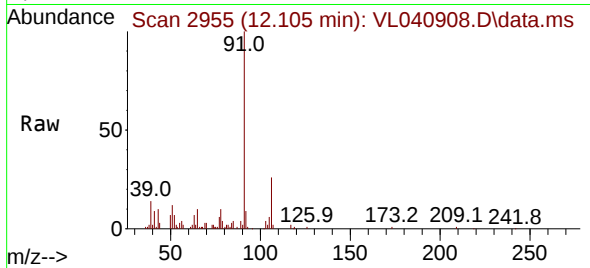
Tgt Ion:117 Resp: 2490722
Ion Ratio Lower Upper
117 100
82 67.0 50.6 75.8
119 33.2 23.3 34.9





#58
Ethyl Benzene
Concen: 0.315 ppbv
RT: 12.105 min Scan# 2942
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

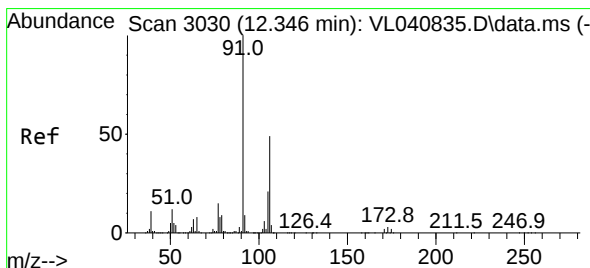
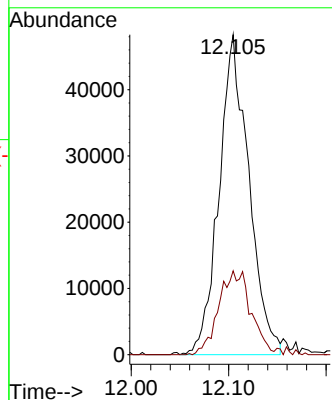
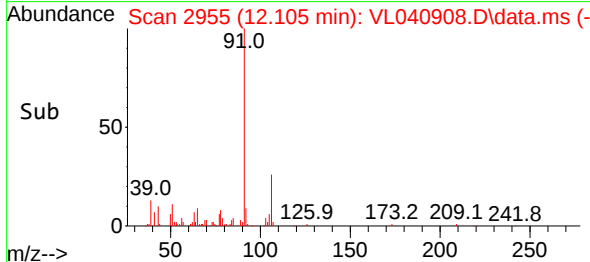
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



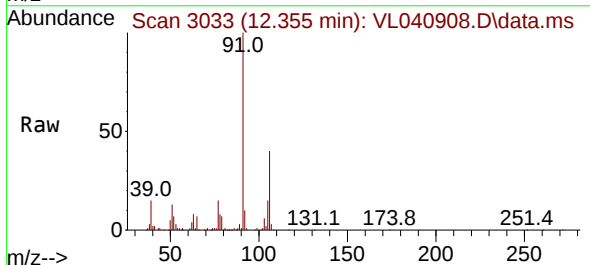
Tgt Ion: 91 Resp: 102454
Ion Ratio Lower Upper
91 100
106 26.2 25.2 37.8

Manual Integrations
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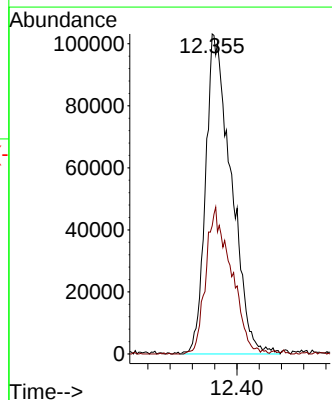
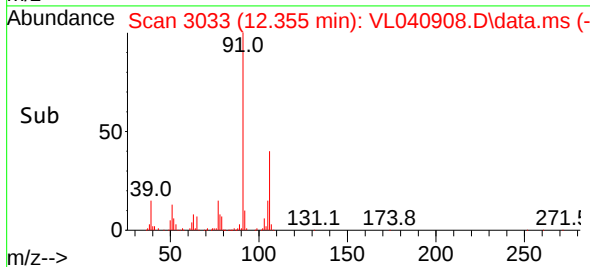
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

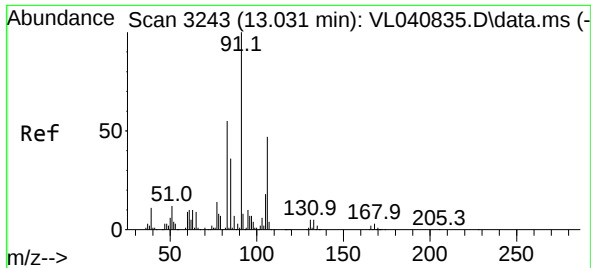


#59
m/p-Xylene
Concen: 1.191 ppbv m
RT: 12.355 min Scan# 3033
Delta R.T. -0.029 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11



Tgt Ion: 91 Resp: 329562
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.0#





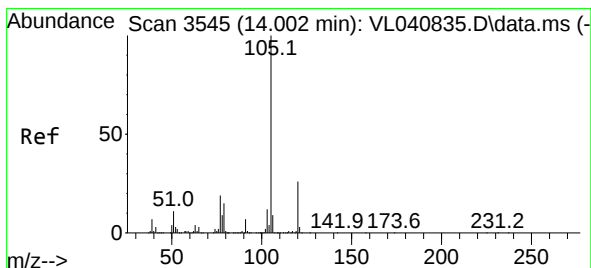
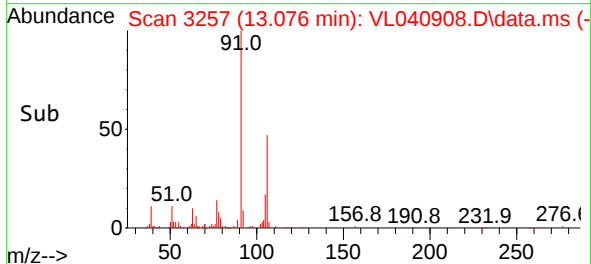
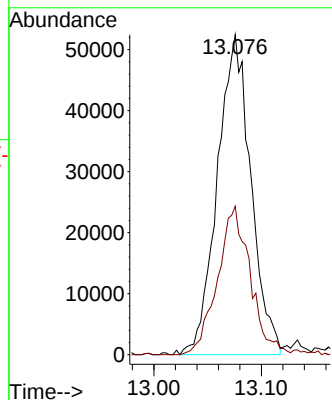
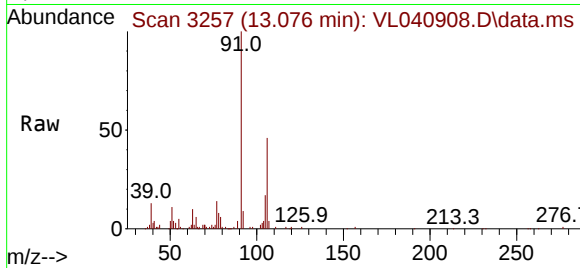
#60
o-Xylene
Concen: 0.431 ppbv
RT: 13.076 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 91 Resp: 11346
Ion Ratio Lower Upper
91 100
106 46.1 22.9 68.5

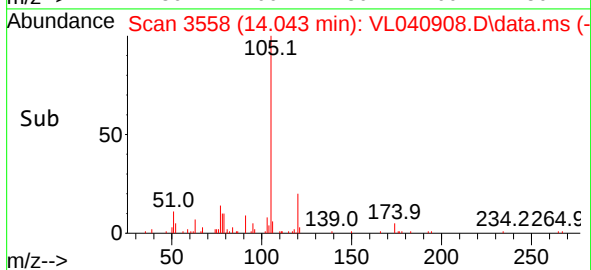
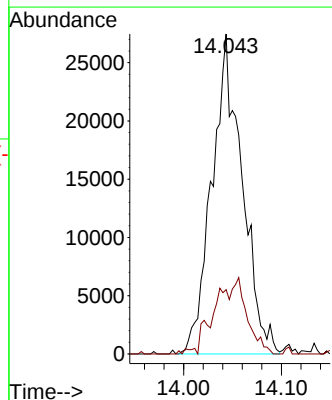
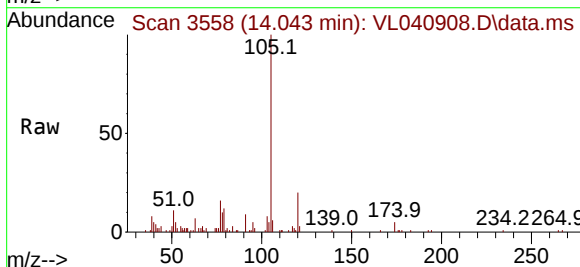
Manual Integrations
APPROVED

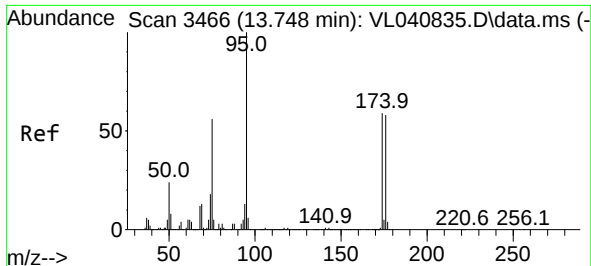
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#62
Isopropylbenzene
Concen: 0.152 ppbv m
RT: 14.043 min Scan# 3558
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

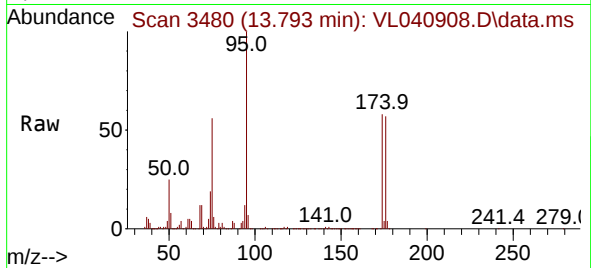
Tgt Ion:105 Resp: 58982
Ion Ratio Lower Upper
105 100
120 0.0 20.7 31.1#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.649 ppbv
RT: 13.793 min Scan# 3466
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11

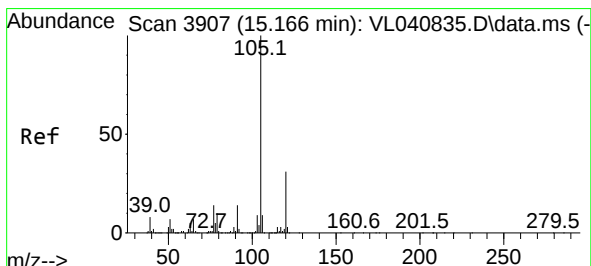
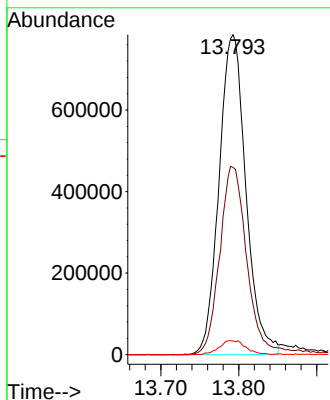
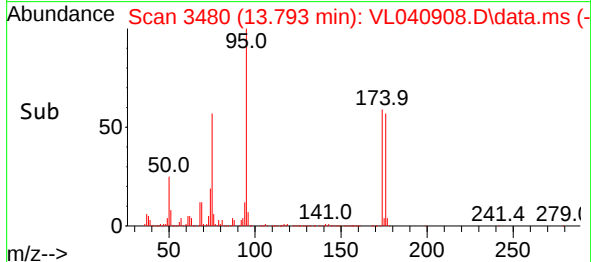
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



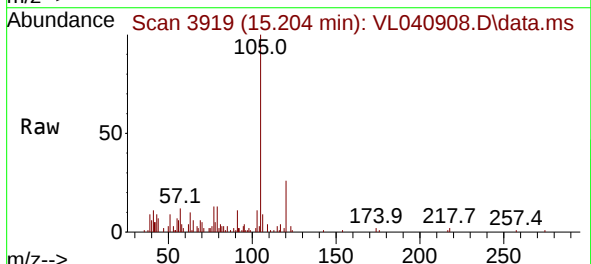
Tgt Ion: 95 Resp: 188167
Ion Ratio Lower Upper
95 100
174 61.2 47.5 71.3
175 4.5 3.6 5.4

Manual Integrations
APPROVED

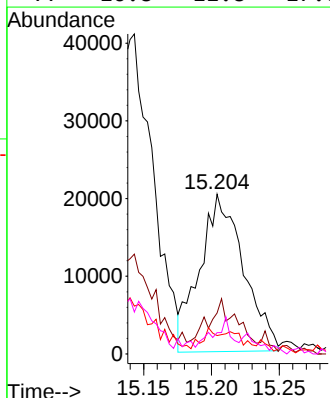
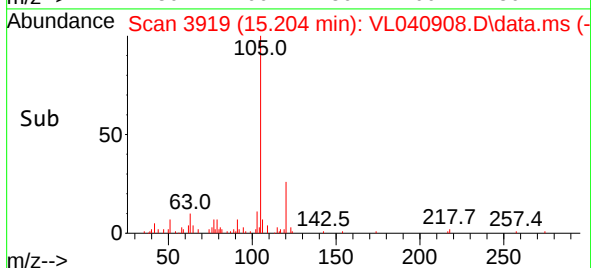
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

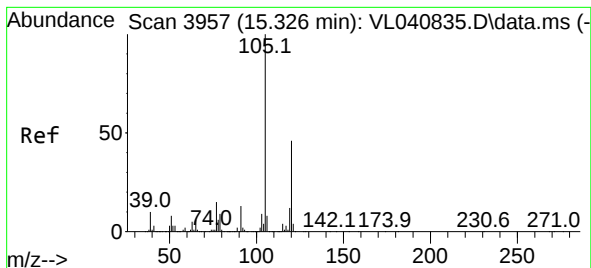


#72
4-Ethyltoluene
Concen: 0.157 ppbv
RT: 15.204 min Scan# 3919
Delta R.T. -0.000 min
Lab File: VL040908.D
Acq: 27 Nov 2023 15:11



Tgt Ion:105 Resp: 45599
Ion Ratio Lower Upper
105 100
120 30.2 24.5 36.7
91 18.3 10.6 16.0#
77 16.8 11.8 17.6





#73

1,3,5-Trimethylbenzene

Concen: 0.126 ppbv m

RT: 15.371 min Scan# 3957

Delta R.T. 0.006 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion:105 Resp: 3228

Ion Ratio Lower Upper

105 100

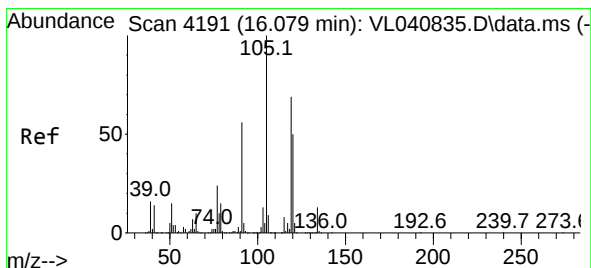
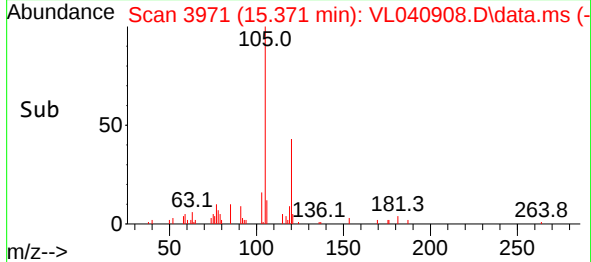
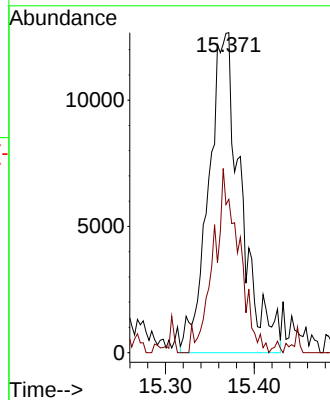
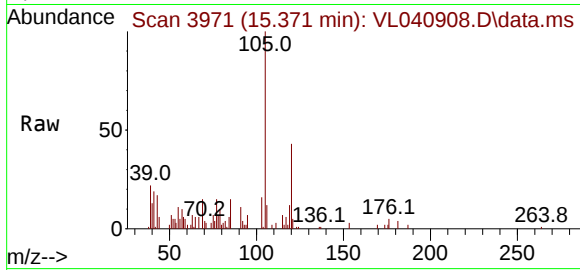
120 43.4 36.8 55.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#74

1,2,4-Trimethylbenzene

Concen: 0.296 ppbv m

RT: 16.121 min Scan# 4204

Delta R.T. -0.000 min

Lab File: VL040908.D

Acq: 27 Nov 2023 15:11

Tgt Ion:105 Resp: 84732

Ion Ratio Lower Upper

105 100

120 45.5 40.2 60.2

91 11.3 45.7 68.5#

77 17.0 19.2 28.8#

