

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112723\
 Data File : VL040906.D
 Acq On : 27 Nov 2023 13:45
 Operator : SY/MD
 Sample : 05520-01DUP 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP

Manual Integrations
 APPROVED

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

Quant Time: Nov 28 04:37:34 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	5.230	49	1219188	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.684	114	2773772	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.487	117	2446840	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.790 95 1956530 10.213 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.100%

Target Compounds

						Qvalue
4) Chloromethane	2.864	50	14066	0.201	ppbv	92
5) Vinyl Chloride	2.973	62	3388m	0.049	ppbv	
9) Propene	2.748	41	515087	7.852	ppbv	93
10) Heptane	7.606	43	50033m	0.310	ppbv	
13) Ethanol	3.288	45	276562m	21.711	ppbv	
15) Acetone	3.517	43	1552253	11.954	ppbv	91
17) tert-Butyl alcohol	3.935	59	88549	0.797	ppbv	99
19) Isopropyl Alcohol	3.629	45	51551m	0.660	ppbv	
20) Methylene Chloride	3.983	84	1999863	37.320	ppbv	95
26) Hexane	5.253	57	1076654	9.048	ppbv #	44
27) Carbon Disulfide	4.169	76	57004m	0.378	ppbv	
30) Cyclohexane	6.639	84	12205m	0.119	ppbv	
34) 2-Butanone	4.822	43	2123827	15.030	ppbv	97
36) Benzene	6.401	78	63698m	0.283	ppbv	
41) Tetrahydrofuran	5.613	42	25057m	0.288	ppbv	
44) 2,2,4-Trimethylpentane	7.356	57	645984	1.727	ppbv #	87
50) 4-Methyl-2-Pentanone	8.217	43	87338m	0.399	ppbv	
51) 2-Hexanone	9.581	43	290617	1.885	ppbv #	100
52) Tetrachloroethene	10.639	164	6638m	0.088	ppbv	
53) Toluene	9.240	91	723540	2.921	ppbv	99
58) Ethyl Benzene	12.108	91	376523	1.179	ppbv	95
59) m/p-Xylene	12.362	91	1162148	4.275	ppbv	99
60) o-Xylene	13.076	91	433696	1.676	ppbv	98
62) Isopropylbenzene	14.047	105	210473	0.550	ppbv	95
64) n-propylbenzene	14.928	120	34032m	0.355	ppbv	
72) 4-Ethyltoluene	15.211	105	160231m	0.563	ppbv	
73) 1,3,5-Trimethylbenzene	15.368	105	118628m	0.471	ppbv	
74) 1,2,4-Trimethylbenzene	16.127	105	318684m	1.135	ppbv	

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

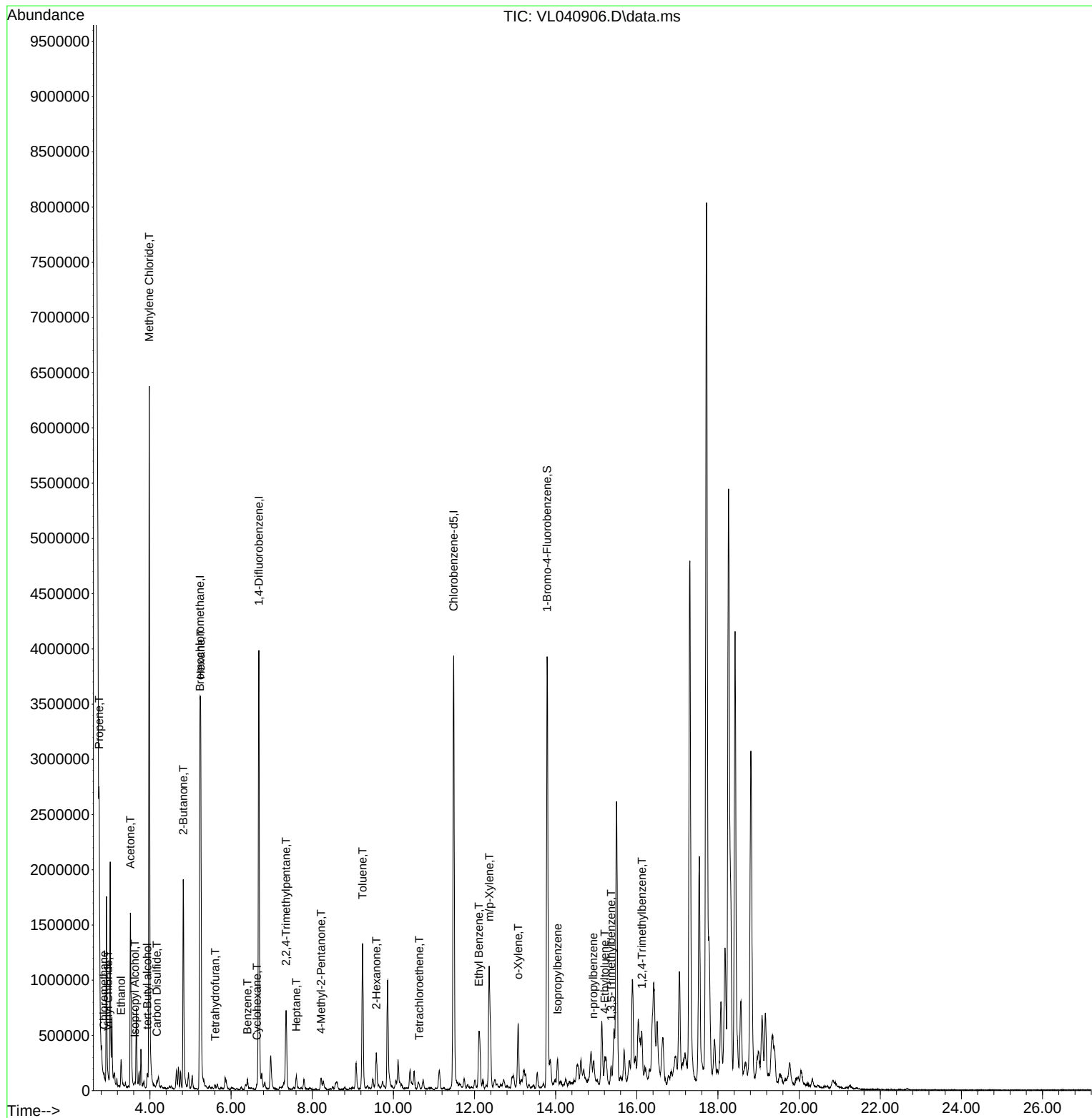
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112723\
Data File : VL040906.D
Acq On : 27 Nov 2023 13:45
Operator : SY/MD
Sample : 05520-01DUP 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

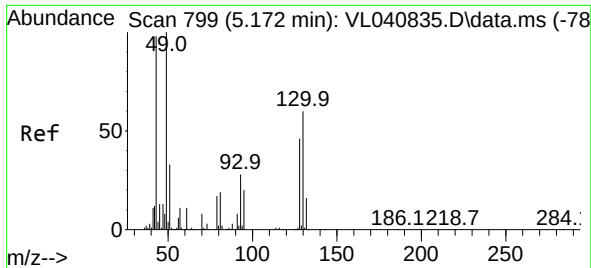
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Quant Time: Nov 28 04:37:34 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Nov 28 04:31:59 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

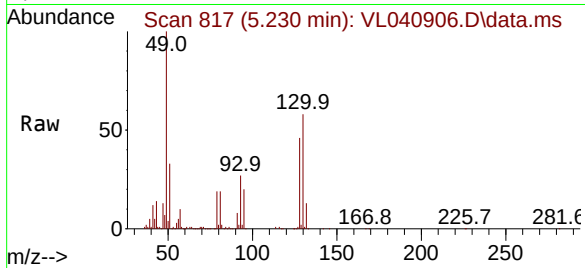
Reviewed By : Semsettin Yesilyurt 11/28/2023
Supervised By : Mahesh Dadoda 11/28/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.230 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

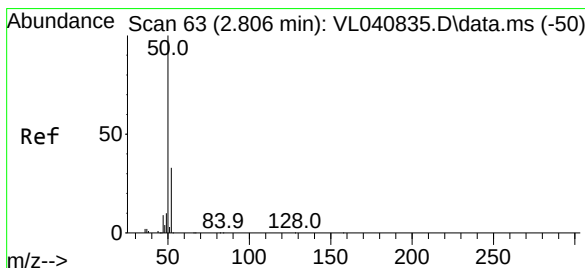
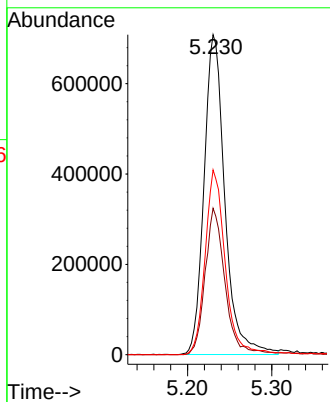
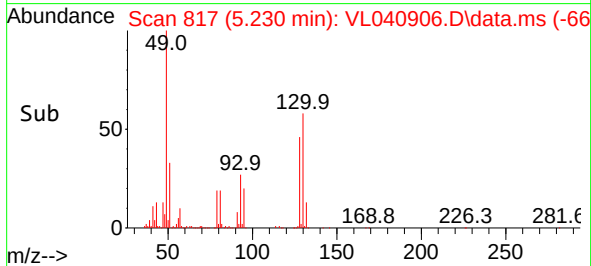
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 49 Resp: 121918
Ion Ratio Lower Upper
49 100
128 44.4 23.8 71.2
130 56.3 30.9 92.8

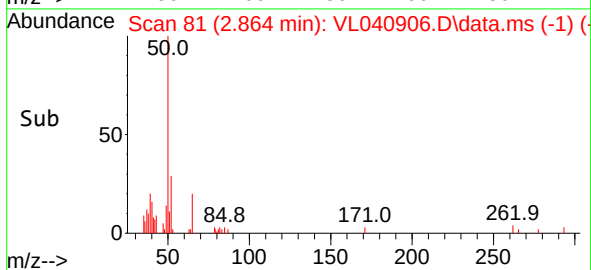
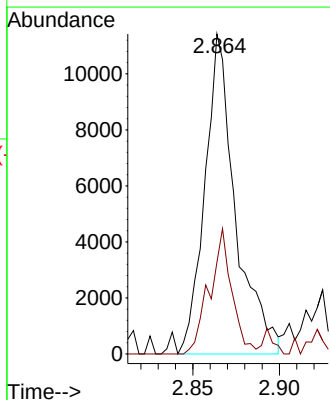
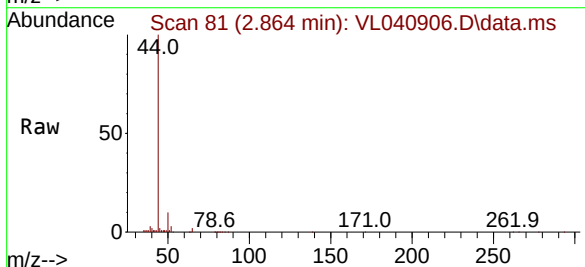
Manual Integrations
APPROVED

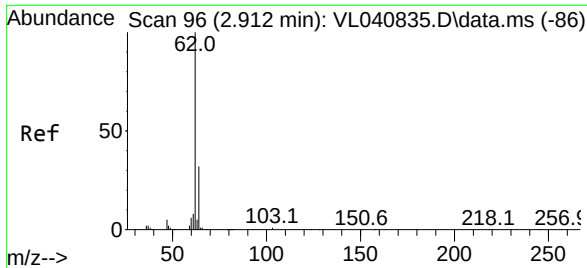
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#4
Chloromethane
Concen: 0.201 ppbv
RT: 2.864 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

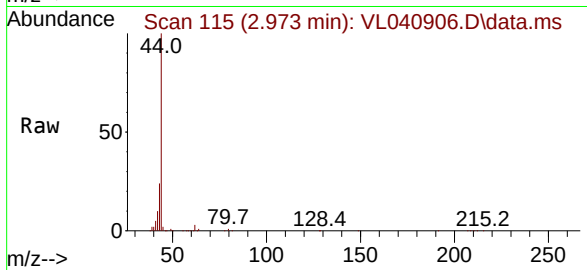
Tgt Ion: 50 Resp: 14066
Ion Ratio Lower Upper
50 100
52 28.6 26.5 39.7





#5
 Vinyl Chloride
 Concen: 0.049 ppbv m
 RT: 2.973 min Scan# 115
 Delta R.T. 0.000 min
 Lab File: VL040906.D
 Acq: 27 Nov 2023 13:45

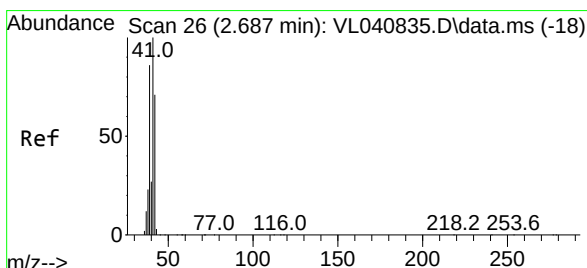
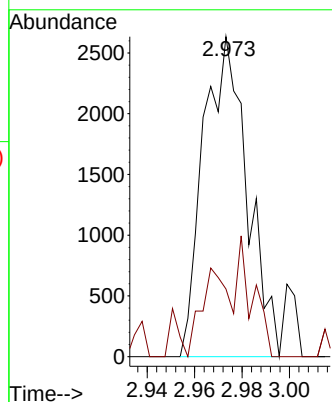
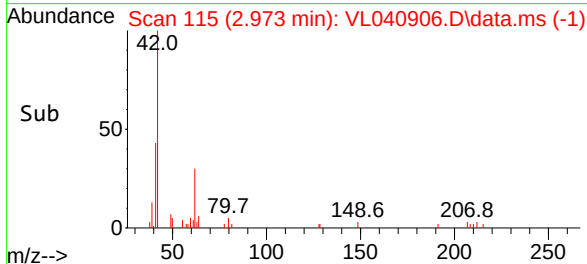
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP



Tgt Ion: 62 Resp: 338
 Ion Ratio Lower Upper
 62 100
 64 21.1 25.4 38.2

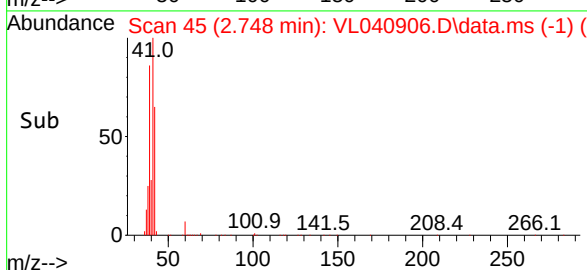
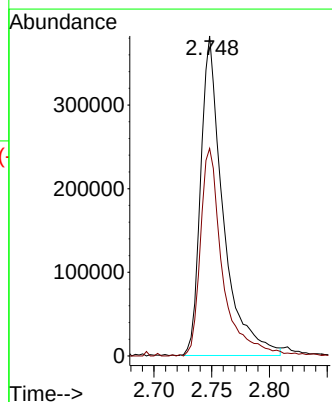
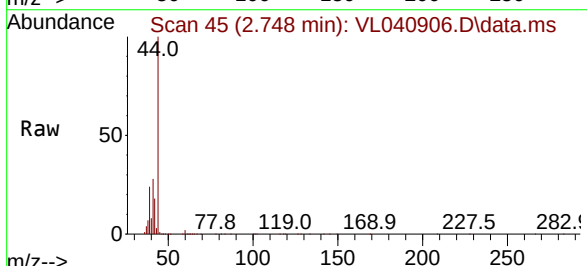
Manual Integrations
 APPROVED

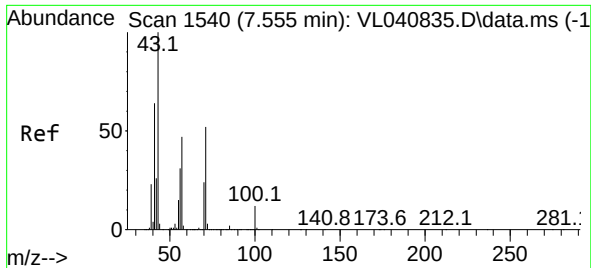
Reviewed By :Semsettin Yesilyurt 11/28/2023
 Supervised By :Mahesh Dadoda 11/28/2023



#9
 Propene
 Concen: 7.852 ppbv
 RT: 2.748 min Scan# 45
 Delta R.T. 0.000 min
 Lab File: VL040906.D
 Acq: 27 Nov 2023 13:45

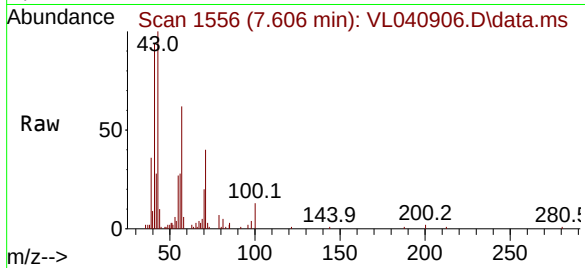
Tgt Ion: 41 Resp: 515087
 Ion Ratio Lower Upper
 41 100
 42 65.0 56.5 84.7





#10
Heptane
Concen: 0.310 ppbv m
RT: 7.606 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

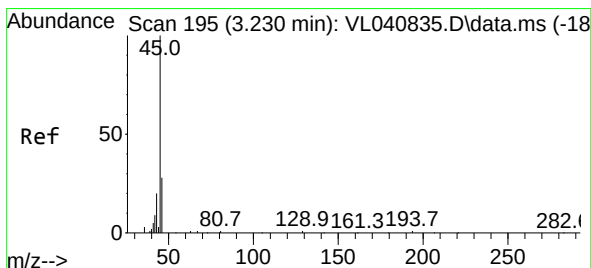
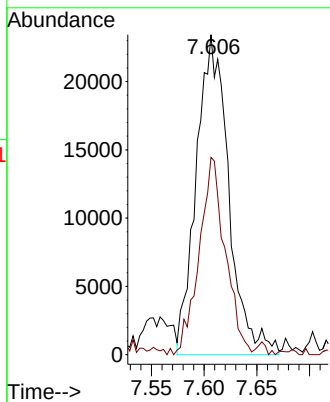
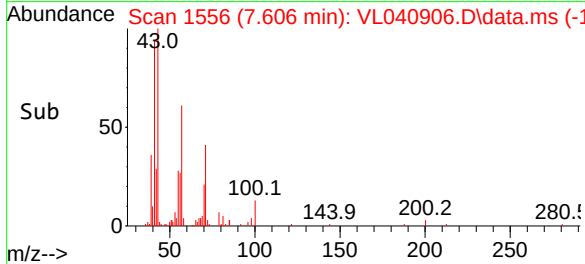
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



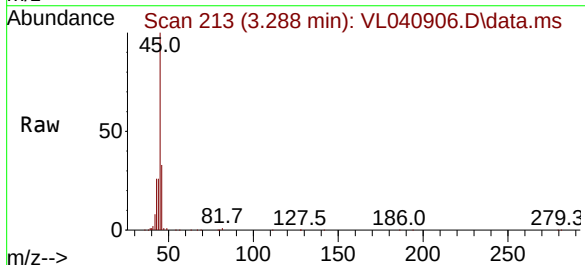
Tgt Ion: 43 Resp: 5003
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.0

Manual Integrations
APPROVED

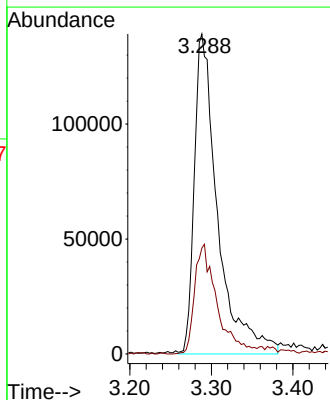
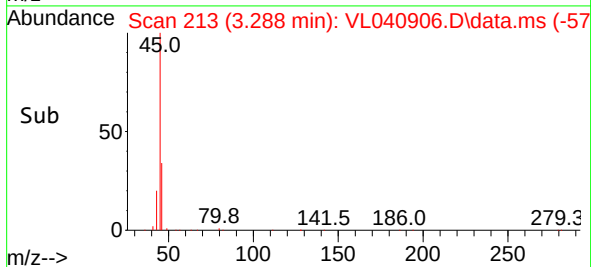
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

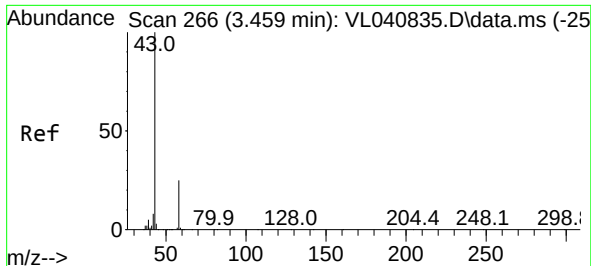


#13
Ethanol
Concen: 21.711 ppbv m
RT: 3.288 min Scan# 213
Delta R.T. 0.000 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45



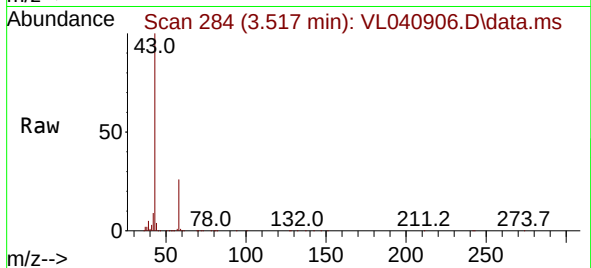
Tgt Ion: 45 Resp: 276562
Ion Ratio Lower Upper
45 100
46 35.2 0.0 0.0





#15
Acetone
Concen: 11.954 ppbv
RT: 3.517 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

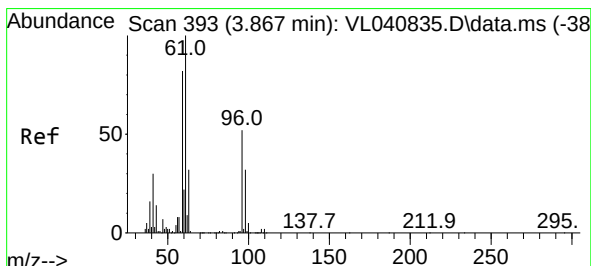
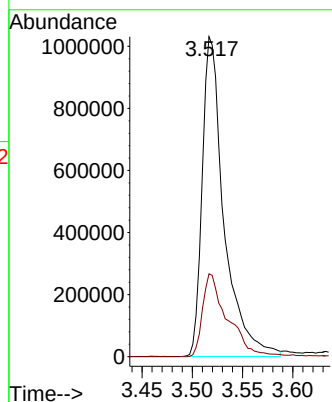
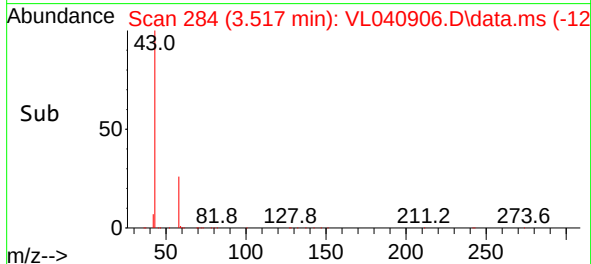
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 43 Resp: 155225
Ion Ratio Lower Upper
43 100
58 30.6 20.9 31.3

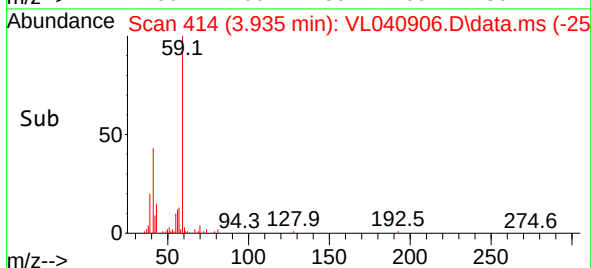
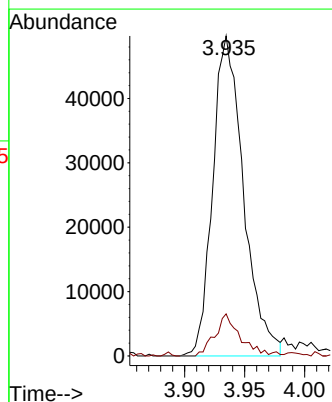
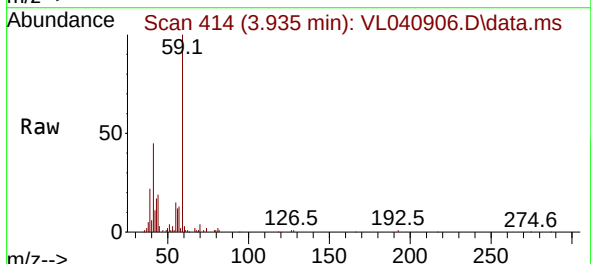
Manual Integrations
APPROVED

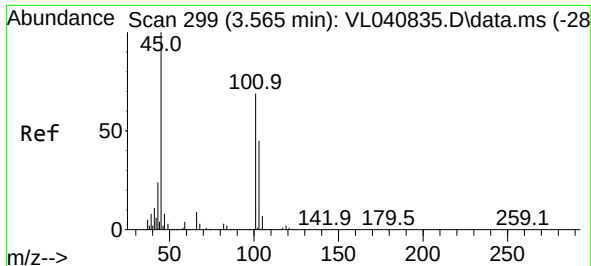
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#17
tert-Butyl alcohol
Concen: 0.797 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.013 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

Tgt Ion: 59 Resp: 88549
Ion Ratio Lower Upper
59 100
57 10.9 9.0 13.4





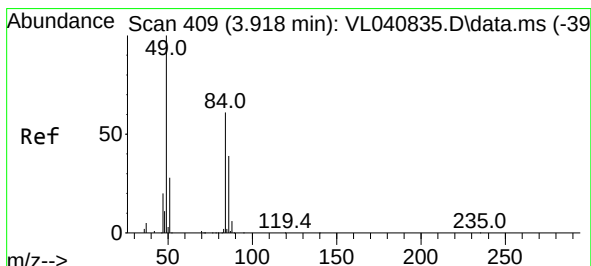
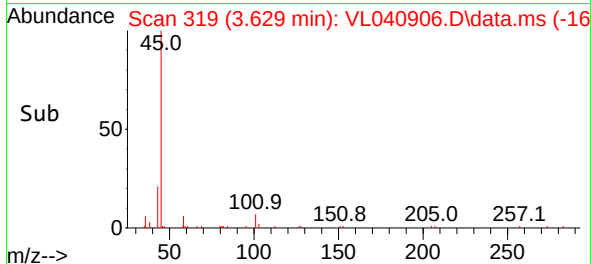
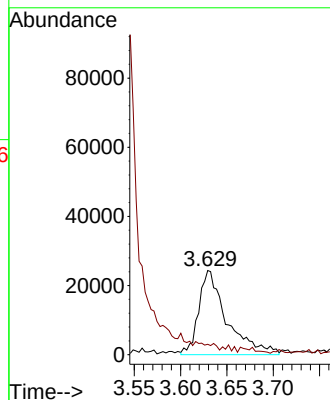
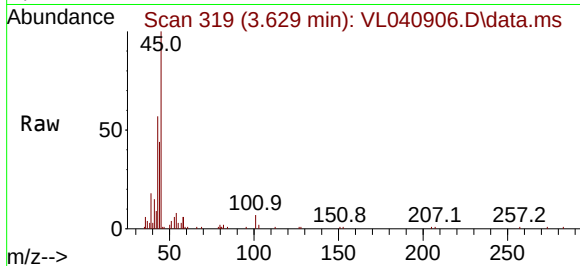
#19
Isopropyl Alcohol
Concen: 0.660 ppbv m
RT: 3.629 min Scan# 319
Delta R.T. 0.010 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 45 Resp: 5155
Ion Ratio Lower Upper
45 100
58 921.8 1.6 2.4

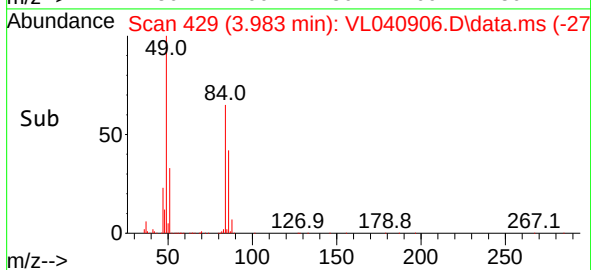
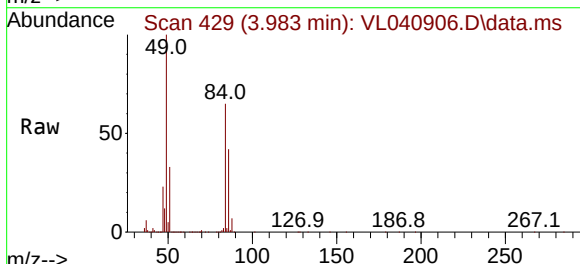
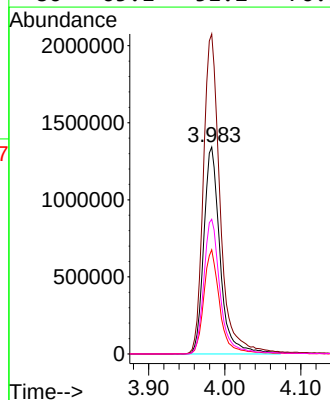
Manual Integrations
APPROVED

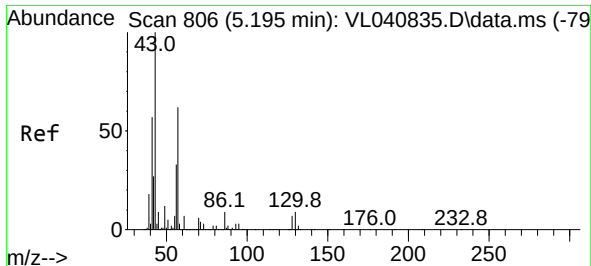
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#20
Methylene Chloride
Concen: 37.320 ppbv
RT: 3.983 min Scan# 429
Delta R.T. 0.006 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

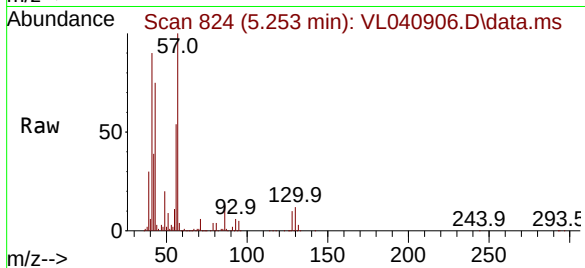
Tgt Ion: 84 Resp: 1999863
Ion Ratio Lower Upper
84 100
49 154.7 131.0 196.4
51 50.2 36.9 55.3
86 65.1 51.2 76.8





#26
Hexane
Concen: 9.048 ppbv
RT: 5.253 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

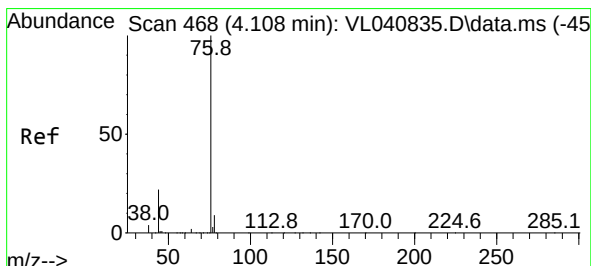
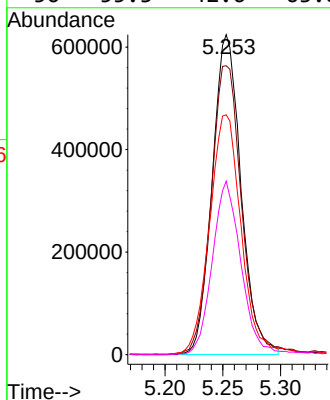
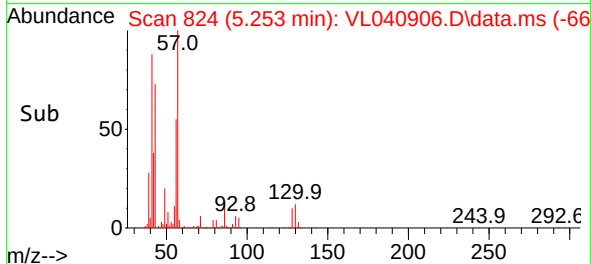
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 57 Resp: 1076654
Ion Ratio Lower Upper
57 100
41 98.0 75.4 113.0
43 83.7 185.9 278.9
56 55.3 42.6 63.8

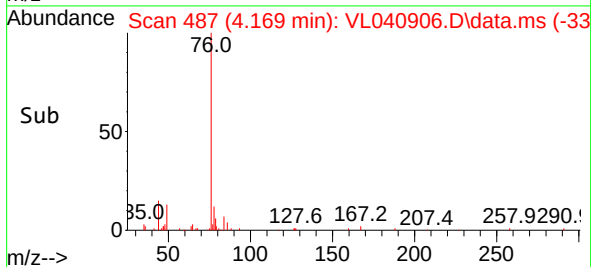
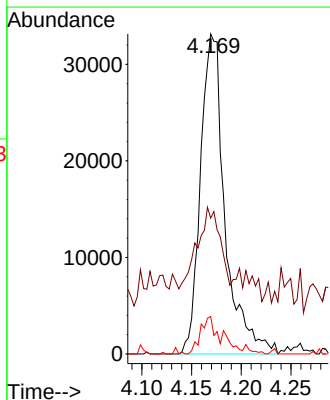
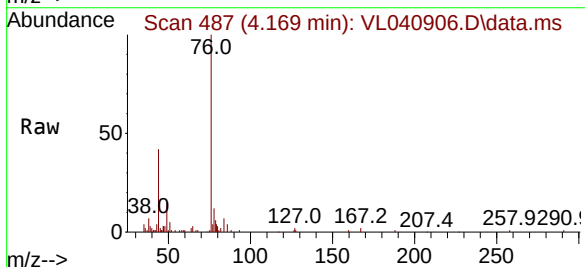
Manual Integrations
APPROVED

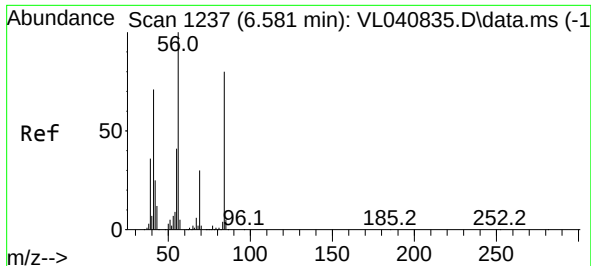
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#27
Carbon Disulfide
Concen: 0.378 ppbv m
RT: 4.169 min Scan# 487
Delta R.T. 0.003 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

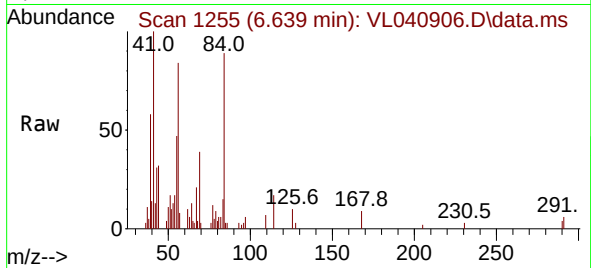
Tgt Ion: 76 Resp: 57004
Ion Ratio Lower Upper
76 100
44 56.0 16.7 25.1#
78 11.2 7.6 11.4





#30
Cyclohexane
Concen: 0.119 ppbv m
RT: 6.639 min Scan# 1220
Delta R.T. 0.006 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

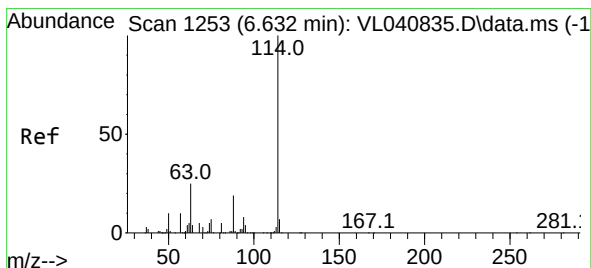
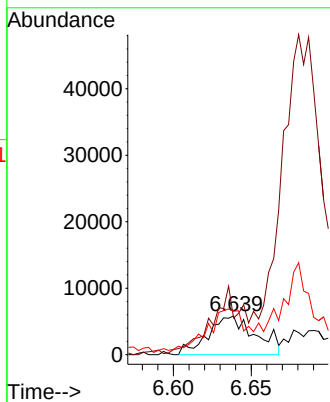
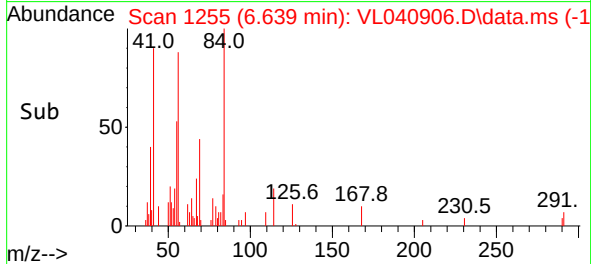
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



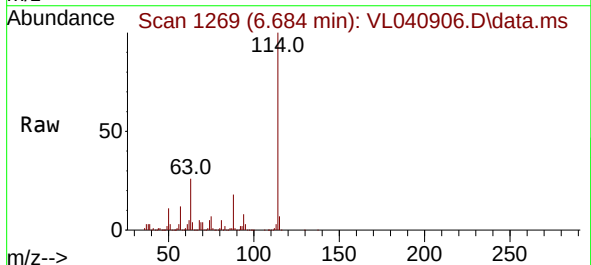
Tgt Ion: 84 Resp: 1220
Ion Ratio Lower Upper
84 100
56 0.0 109.3 163.9
41 115.4 71.4 107.2

Manual Integrations
APPROVED

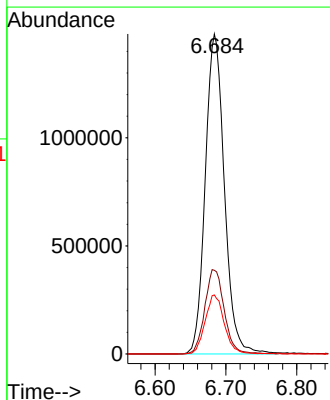
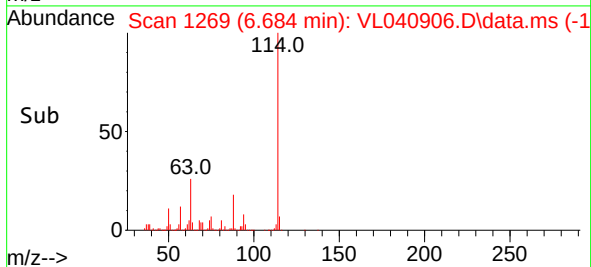
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

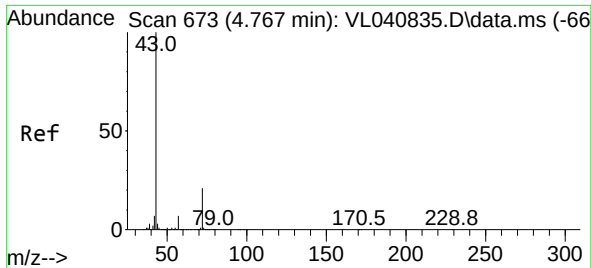


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.684 min Scan# 1269
Delta R.T. 0.000 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45



Tgt Ion:114 Resp: 2773772
Ion Ratio Lower Upper
114 100
63 27.0 20.9 31.3
88 18.5 14.3 21.5





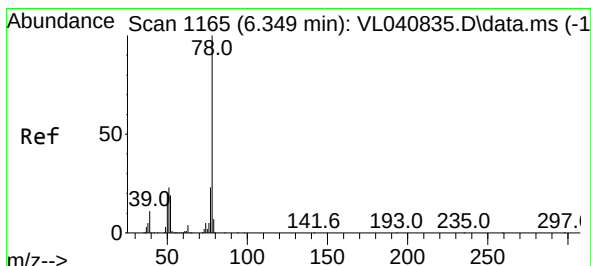
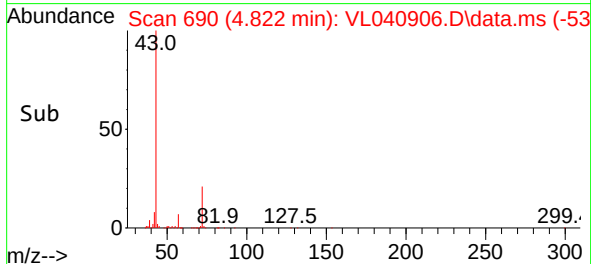
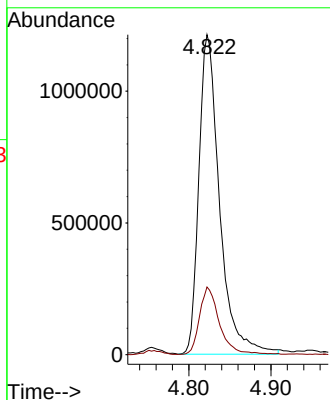
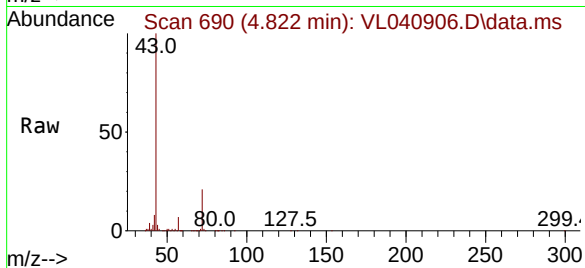
#34
2-Butanone
Concen: 15.030 ppbv
RT: 4.822 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 43 Resp: 212382
Ion Ratio Lower Upper
43 100
72 20.3 17.2 25.8

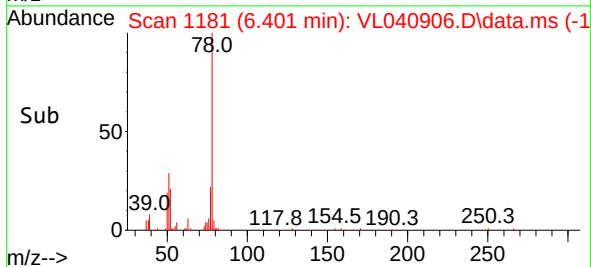
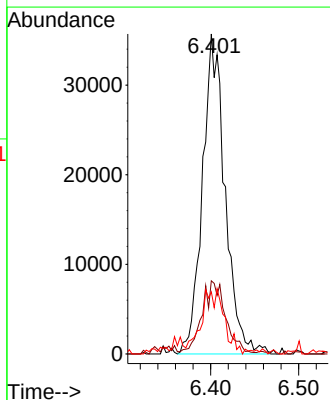
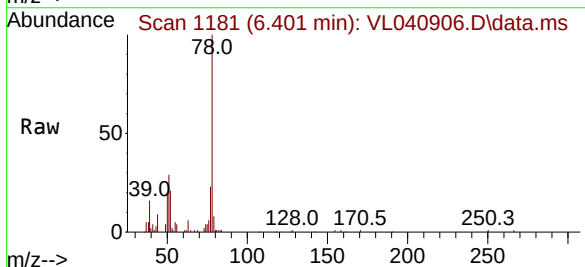
Manual Integrations
APPROVED

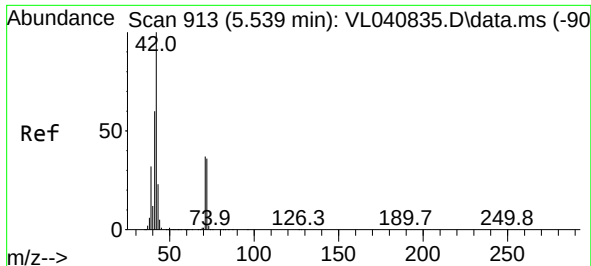
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#36
Benzene
Concen: 0.283 ppbv m
RT: 6.401 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

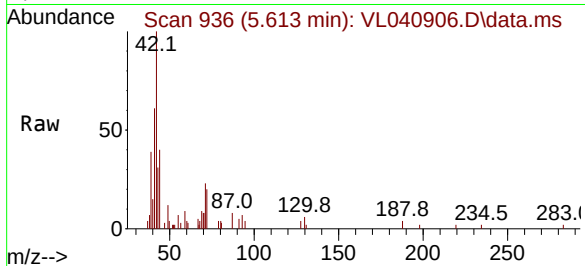
Tgt Ion: 78 Resp: 63698
Ion Ratio Lower Upper
78 100
77 22.9 18.4 27.6
50 19.4 16.2 24.2





#41
Tetrahydrofuran
Concen: 0.288 ppbv m
RT: 5.613 min Scan# 913
Delta R.T. 0.023 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

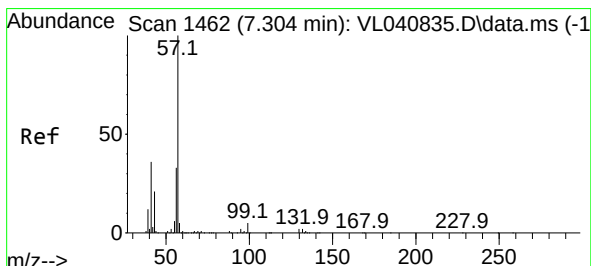
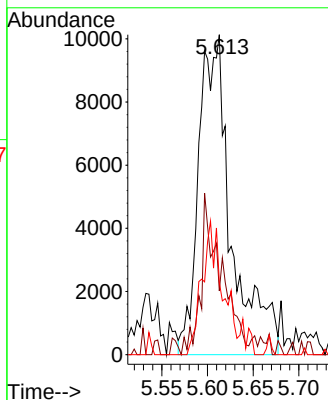
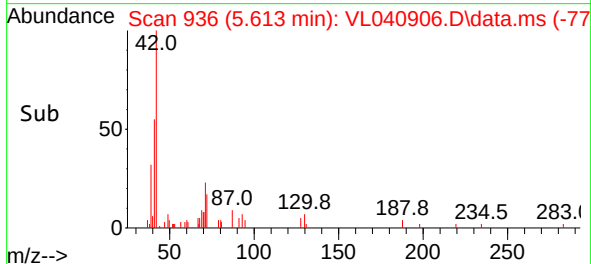
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 42 Resp: 2505
Ion Ratio Lower Upper
42 100
72 33.0 30.8 46.2
71 29.8 30.0 45.0

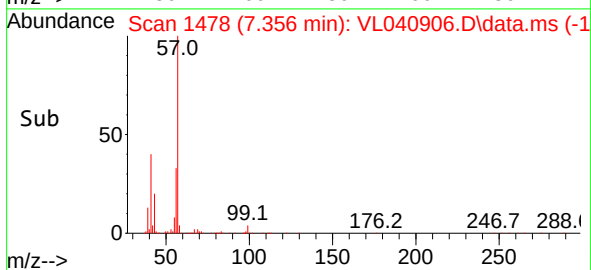
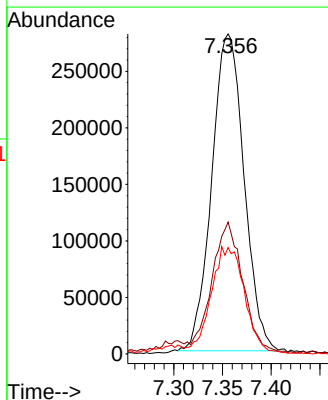
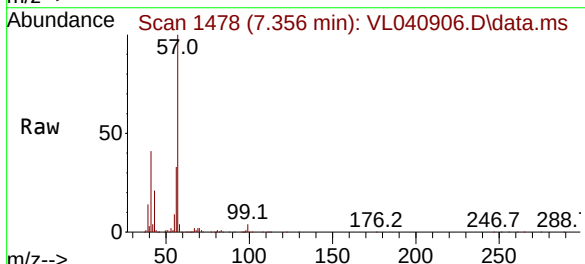
Manual Integrations
APPROVED

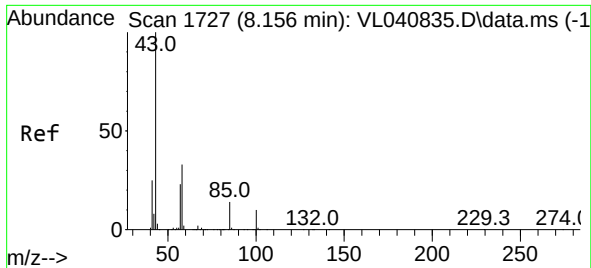
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#44
2,2,4-Trimethylpentane
Concen: 1.727 ppbv
RT: 7.356 min Scan# 1478
Delta R.T. 0.003 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

Tgt Ion: 57 Resp: 645984
Ion Ratio Lower Upper
57 100
41 44.8 29.0 43.6#
56 37.9 25.2 37.8#





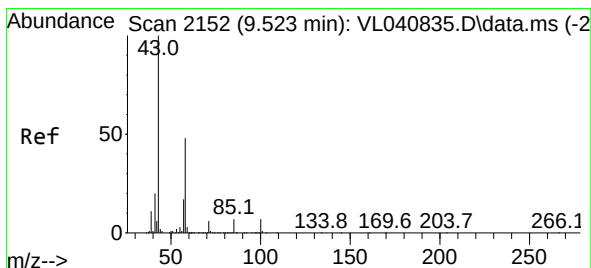
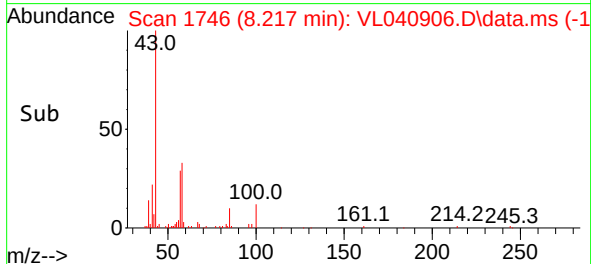
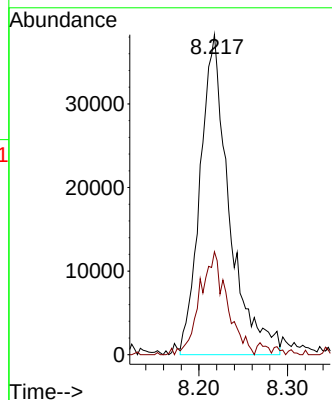
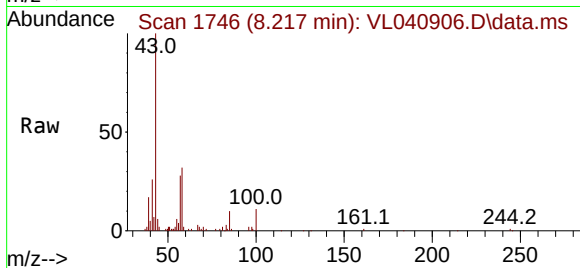
#50
4-Methyl-2-Pentanone
Concen: 0.399 ppbv m
RT: 8.217 min Scan# 1727
Delta R.T. 0.016 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 43 Resp: 87338
Ion Ratio Lower Upper
43 100
58 30.1 27.8 41.6

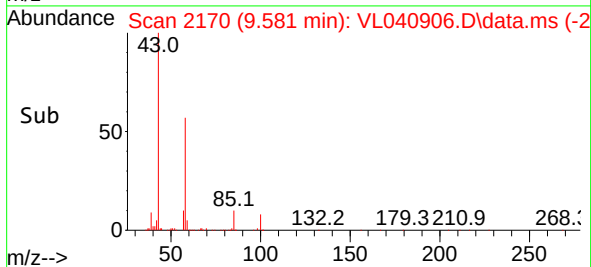
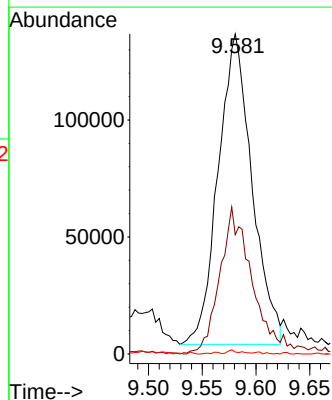
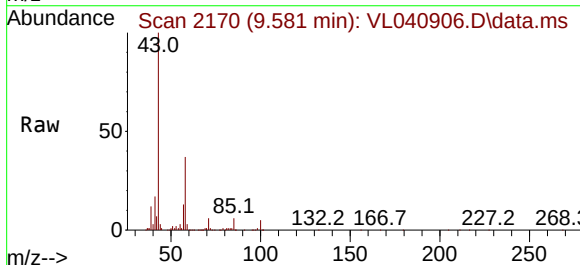
Manual Integrations
APPROVED

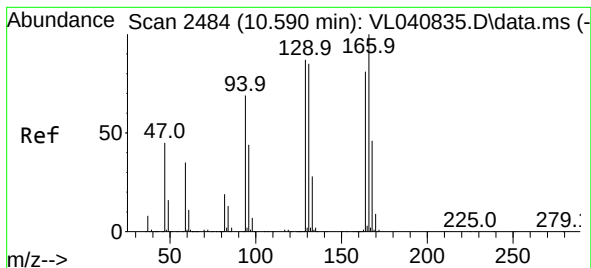
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#51
2-Hexanone
Concen: 1.885 ppbv
RT: 9.581 min Scan# 2170
Delta R.T. 0.010 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

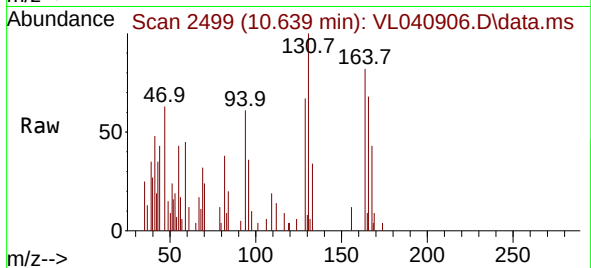
Tgt Ion: 43 Resp: 290617
Ion Ratio Lower Upper
43 100
58 46.7 37.4 56.2
98 1.0 0.2 0.2#





#52
Tetrachloroethene
Concen: 0.088 ppbv m
RT: 10.639 min Scan# 2484
Delta R.T. 0.006 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

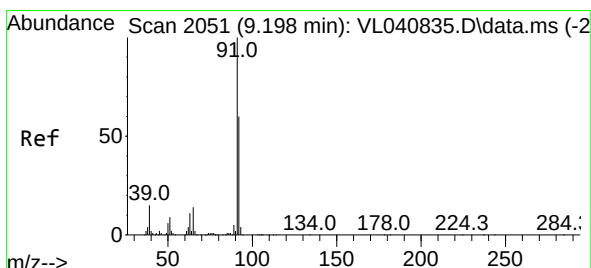
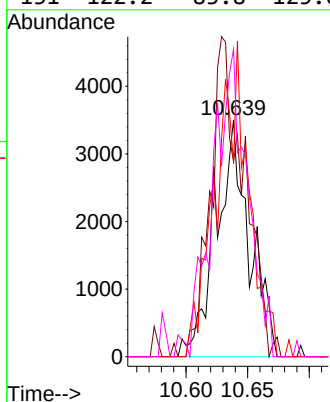
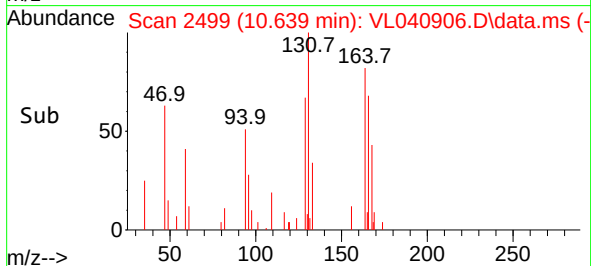
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



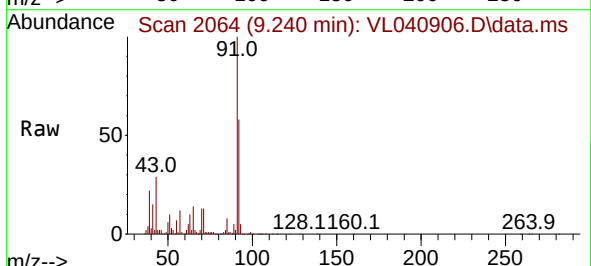
Tgt Ion:164 Resp: 6638
Ion Ratio Lower Upper
164 100
166 82.5 98.3 147.5
129 81.6 85.1 127.7
131 122.2 83.8 125.6

Manual Integrations
APPROVED

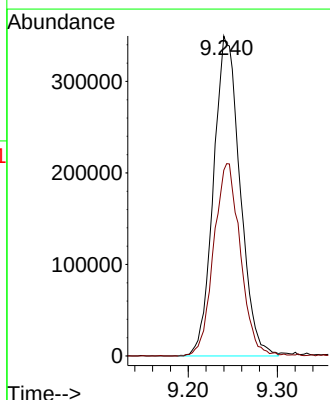
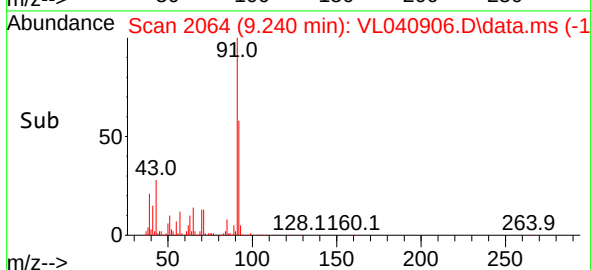
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

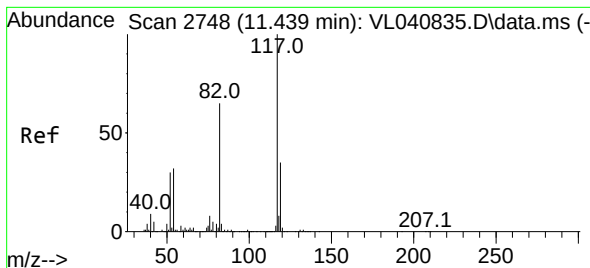


#53
Toluene
Concen: 2.921 ppbv
RT: 9.240 min Scan# 2064
Delta R.T. 0.000 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45



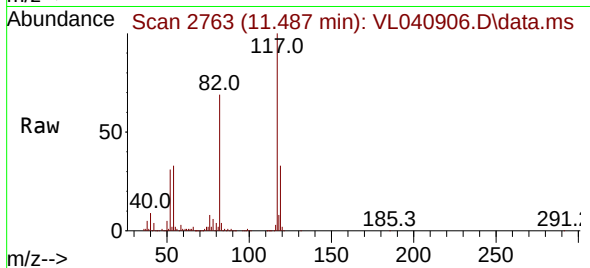
Tgt Ion: 91 Resp: 723540
Ion Ratio Lower Upper
91 100
92 60.7 49.4 74.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.487 min Scan# 211
Delta R.T. 0.003 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

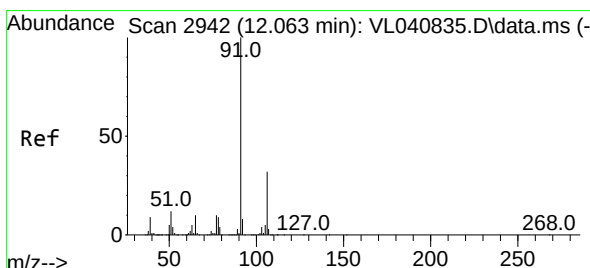
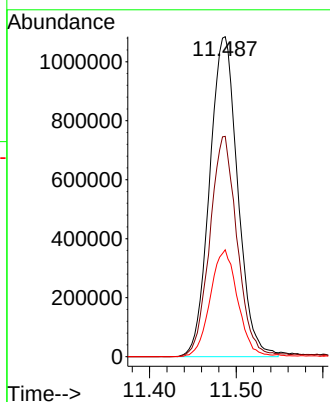
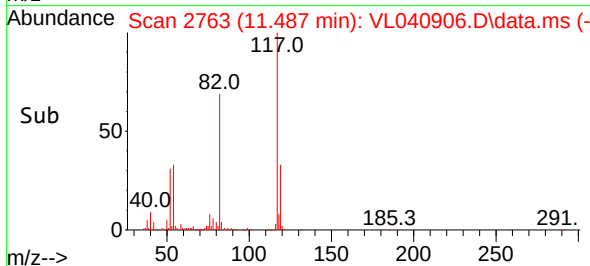
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



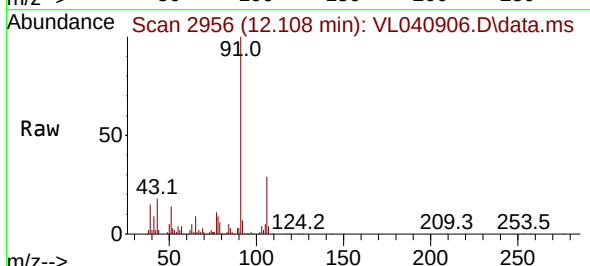
Tgt Ion:117 Resp: 2446840
Ion Ratio Lower Upper
117 100
82 68.7 50.6 75.8
119 32.9 23.3 34.9

Manual Integrations
APPROVED

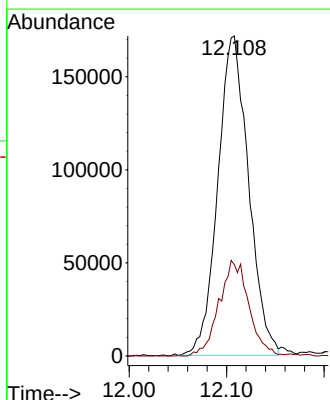
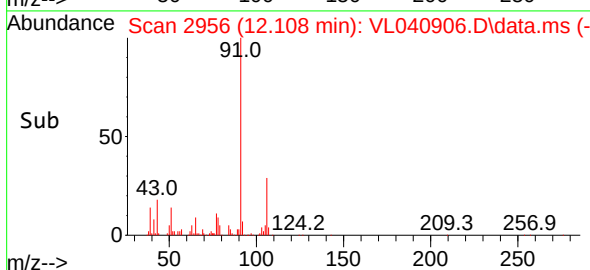
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

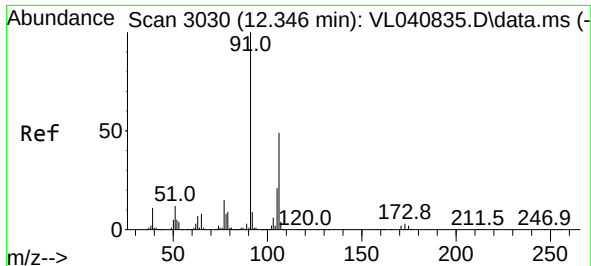


#58
Ethyl Benzene
Concen: 1.179 ppbv
RT: 12.108 min Scan# 2956
Delta R.T. 0.003 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45



Tgt Ion: 91 Resp: 376523
Ion Ratio Lower Upper
91 100
106 28.5 25.2 37.8





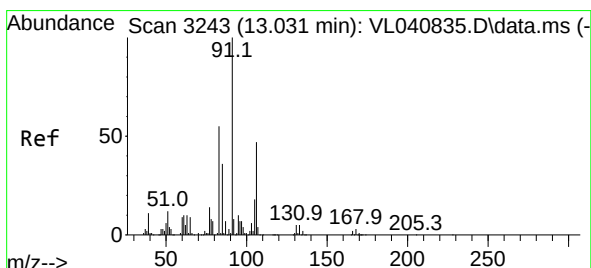
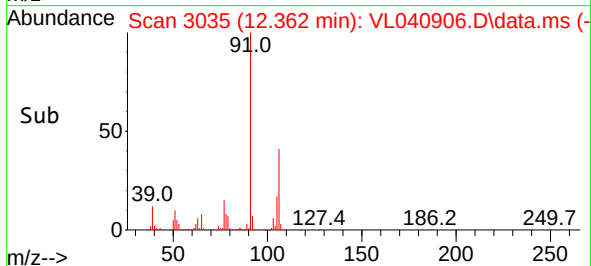
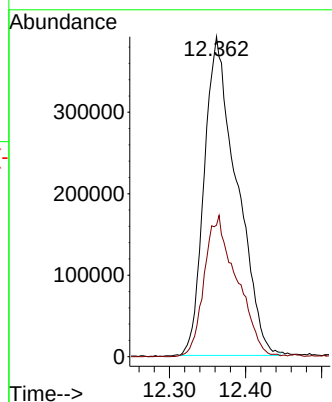
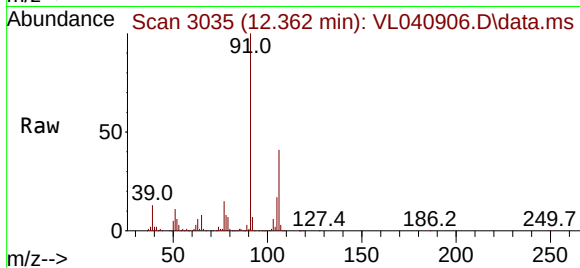
#59
m/p-Xylene
Concen: 4.275 ppbv
RT: 12.362 min Scan# 3035
Delta R.T. -0.022 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 91 Resp: 116214
Ion Ratio Lower Upper
91 100
106 44.9 35.4 53.0

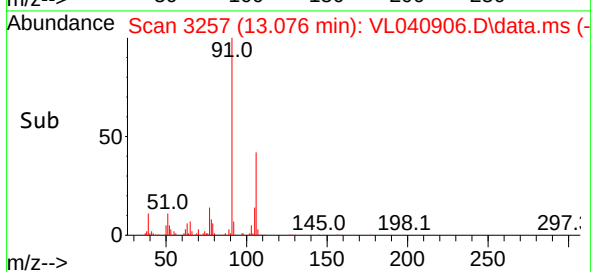
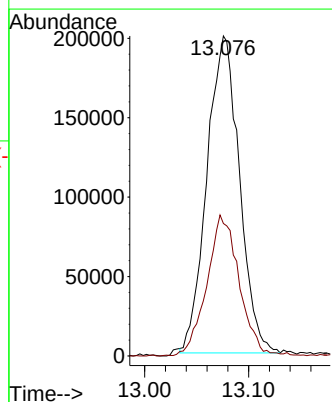
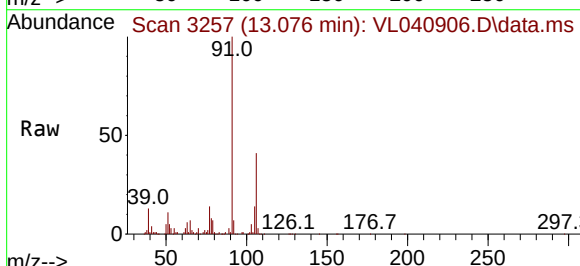
Manual Integrations
APPROVED

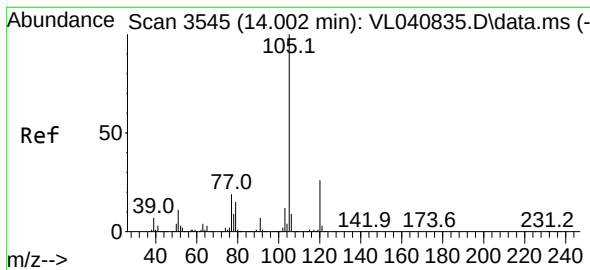
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023



#60
o-Xylene
Concen: 1.676 ppbv
RT: 13.076 min Scan# 3257
Delta R.T. 0.000 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

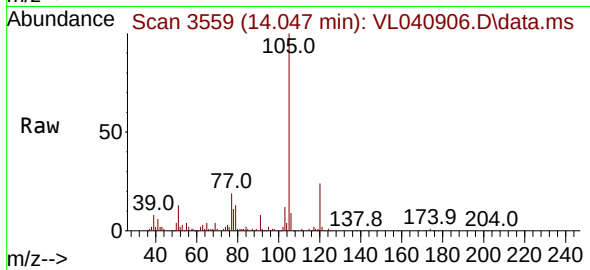
Tgt Ion: 91 Resp: 433696
Ion Ratio Lower Upper
91 100
106 44.4 22.9 68.5





#62
Isopropylbenzene
Concen: 0.550 ppbv
RT: 14.047 min Scan# 310
Delta R.T. 0.003 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

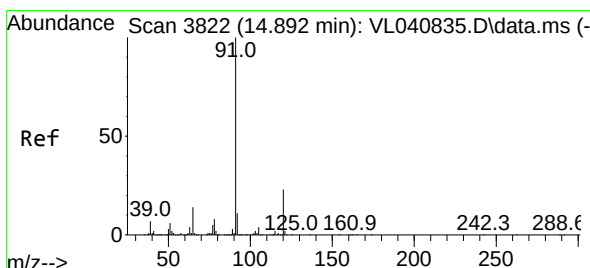
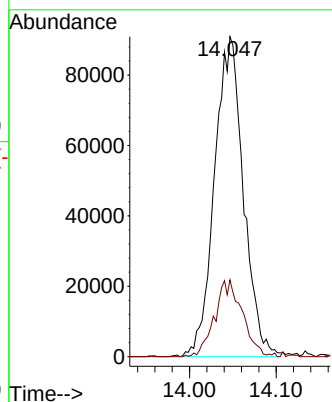
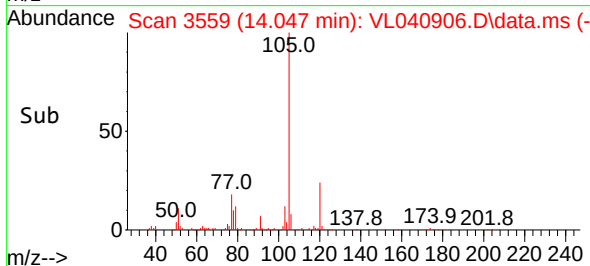
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



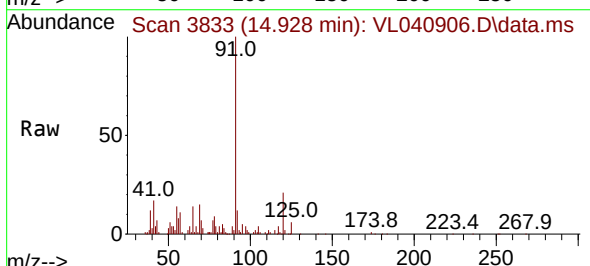
Tgt Ion:105 Resp: 21047
Ion Ratio Lower Upper
105 100
120 23.3 20.7 31.1

Manual Integrations
APPROVED

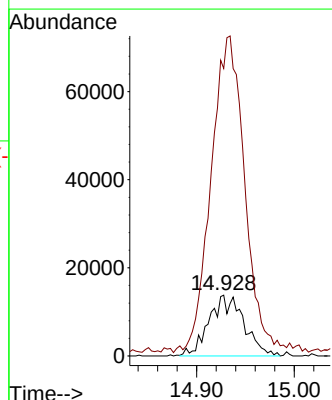
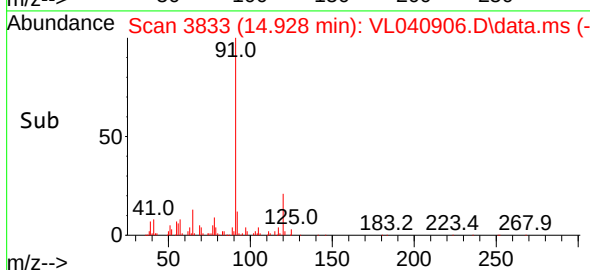
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

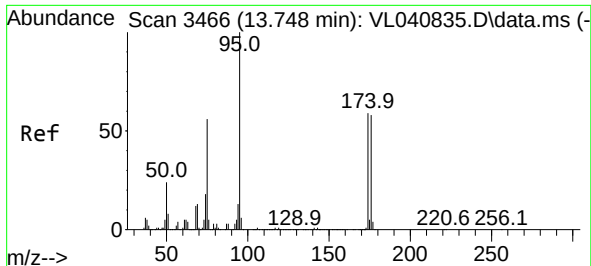


#64
n-propylbenzene
Concen: 0.355 ppbv m
RT: 14.928 min Scan# 3833
Delta R.T. -0.003 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45



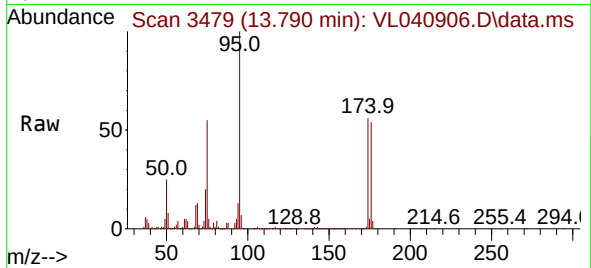
Tgt Ion:120 Resp: 34032
Ion Ratio Lower Upper
120 100
91 523.6 381.1 571.7





#68
1-Bromo-4-Fluorobenzene
Concen: 10.213 ppbv
RT: 13.790 min Scan# 3466
Delta R.T. -0.003 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45

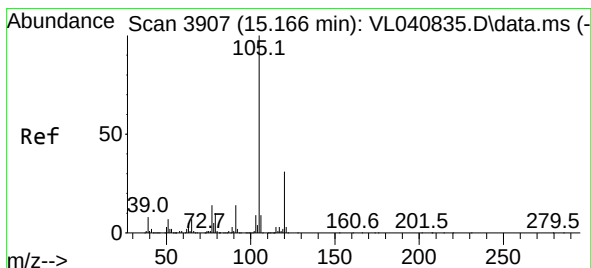
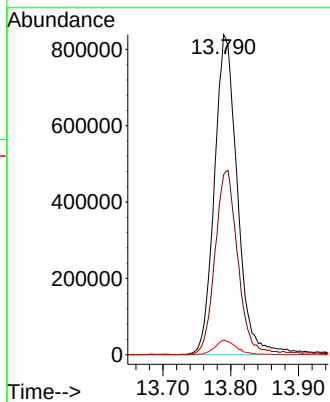
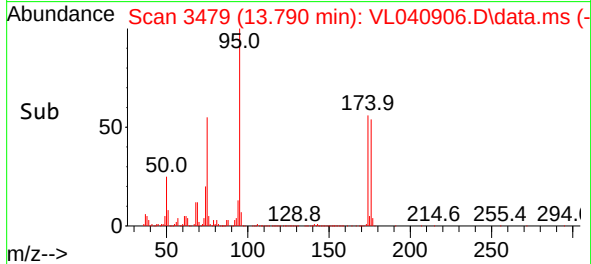
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



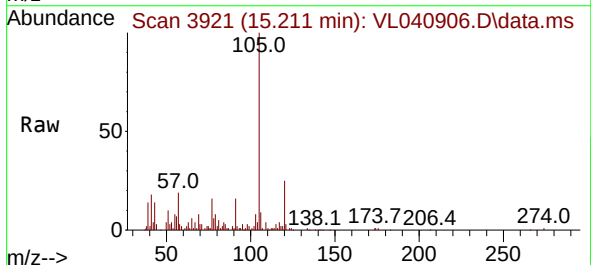
Tgt Ion: 95 Resp: 1956530
Ion Ratio Lower Upper
95 100
174 58.8 47.5 71.3
175 4.4 3.6 5.4

Manual Integrations
APPROVED

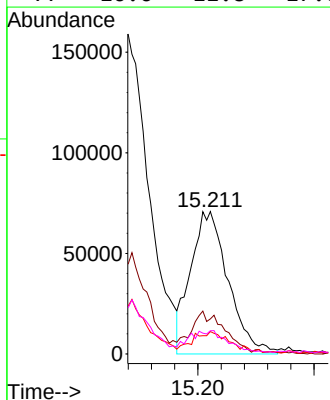
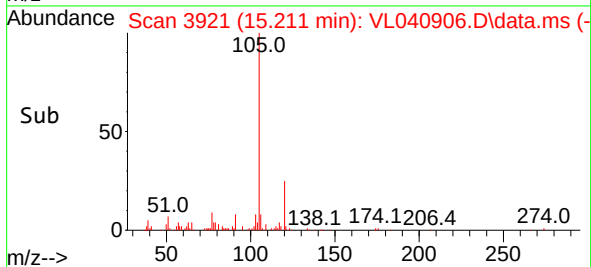
Reviewed By :Semsettin Yesilyurt 11/28/2023
Supervised By :Mahesh Dadoda 11/28/2023

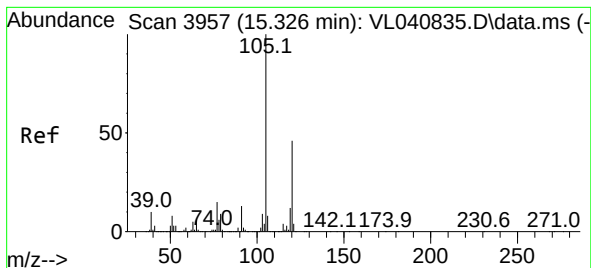


#72
4-Ethyltoluene
Concen: 0.563 ppbv m
RT: 15.211 min Scan# 3921
Delta R.T. 0.006 min
Lab File: VL040906.D
Acq: 27 Nov 2023 13:45



Tgt Ion:105 Resp: 160231
Ion Ratio Lower Upper
105 100
120 28.4 24.5 36.7
91 16.2 10.6 16.0#
77 16.6 11.8 17.6





#73

1,3,5-Trimethylbenzene

Concen: 0.471 ppbv m

RT: 15.368 min Scan# 3957

Delta R.T. 0.003 min

Lab File: VL040906.D

Acq: 27 Nov 2023 13:45

Instrument :

MSVOA_L

ClientSampleId :

SV1DUP

Tgt Ion:105 Resp: 118628

Ion Ratio Lower Upper

105 100

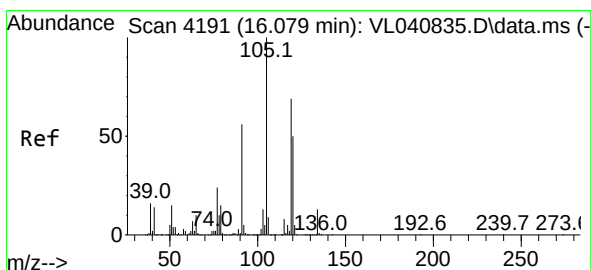
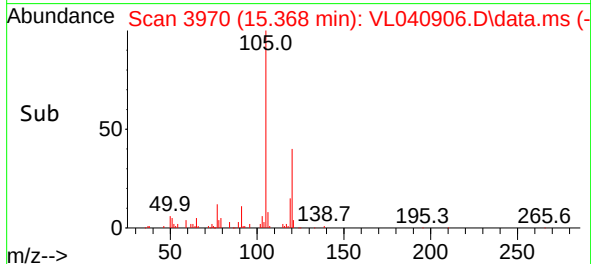
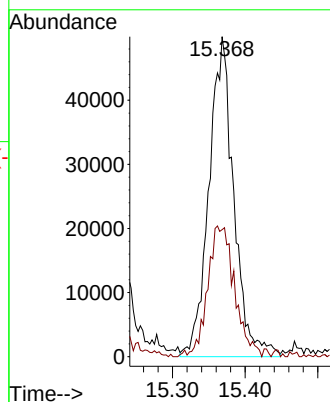
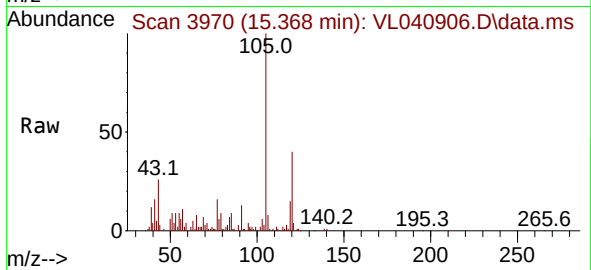
120 39.7 36.8 55.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/28/2023

Supervised By :Mahesh Dadoda 11/28/2023



#74

1,2,4-Trimethylbenzene

Concen: 1.135 ppbv m

RT: 16.127 min Scan# 4206

Delta R.T. 0.006 min

Lab File: VL040906.D

Acq: 27 Nov 2023 13:45

Tgt Ion:105 Resp: 318684

Ion Ratio Lower Upper

105 100

120 35.3 40.2 60.2#

91 12.2 45.7 68.5#

77 15.9 19.2 28.8#

