

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101024\
 Data File : VL041637.D
 Acq On : 10 Oct 2024 11:32
 Operator : SY/MD
 Sample : P4339-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024
 Supervised By :Mahesh Dadoda 10/14/2024

Quant Time: Oct 11 05:38:17 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M

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

QLast Update : Tue Sep 17 09:12:21 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1303223	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3472219	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	3176144	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2446096	10.462	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.600%
Target Compounds						
					Qvalue	
4) Chloromethane	2.790	50	38310	0.441	ppbv #	88
9) Propene	2.671	41	5527370	82.900	ppbv	95
10) Heptane	7.568	43	1089022	6.976	ppbv	97
13) Ethanol	3.214	45	372423	74.297	ppbv	94
15) Acetone	3.439	43	6178459	37.763	ppbv	92
16) 1,3-Butadiene	2.944	39	2707712	34.025	ppbv #	33
17) tert-Butyl alcohol	3.857	59	656633	4.563	ppbv	98
20) Methylene Chloride	3.912	84	290643	4.729	ppbv	96
26) Hexane	5.195	57	797652	6.512	ppbv #	38
27) Carbon Disulfide	4.105	76	269275	2.068	ppbv	98
30) Cyclohexane	6.594	84	66473m	0.704	ppbv	
34) 2-Butanone	4.764	43	1757184	10.613	ppbv	100
36) Benzene	6.352	78	859066	3.563	ppbv	98
41) Tetrahydrofuran	5.542	42	57150m	0.627	ppbv	
44) 2,2,4-Trimethylpentane	7.311	57	232580	0.557	ppbv #	35
50) 4-Methyl-2-Pentanone	8.169	43	408199	1.597	ppbv	99
51) 2-Hexanone	9.532	43	245732	1.271	ppbv #	80
52) Tetrachloroethene	10.603	164	269711	3.089	ppbv	97
53) Toluene	9.208	91	3481030	13.599	ppbv	99
58) Ethyl Benzene	12.076	91	1299930	3.823	ppbv	96
59) m/p-Xylene	12.333	91	3323256	10.982	ppbv	96
60) o-Xylene	13.043	91	919710	3.170	ppbv	99
61) Styrene	12.883	104	17683m	0.146	ppbv	
72) 4-Ethyltoluene	15.182	105	213704	0.630	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.339	105	95126	0.318	ppbv	89
74) 1,2,4-Trimethylbenzene	16.092	105	416217	1.187	ppbv #	67
79) Naphthalene	21.371	128	41934m	0.163	ppbv	
80) Naphthalene,2-methyl-	24.355	142	33961	0.188	ppbv	95

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

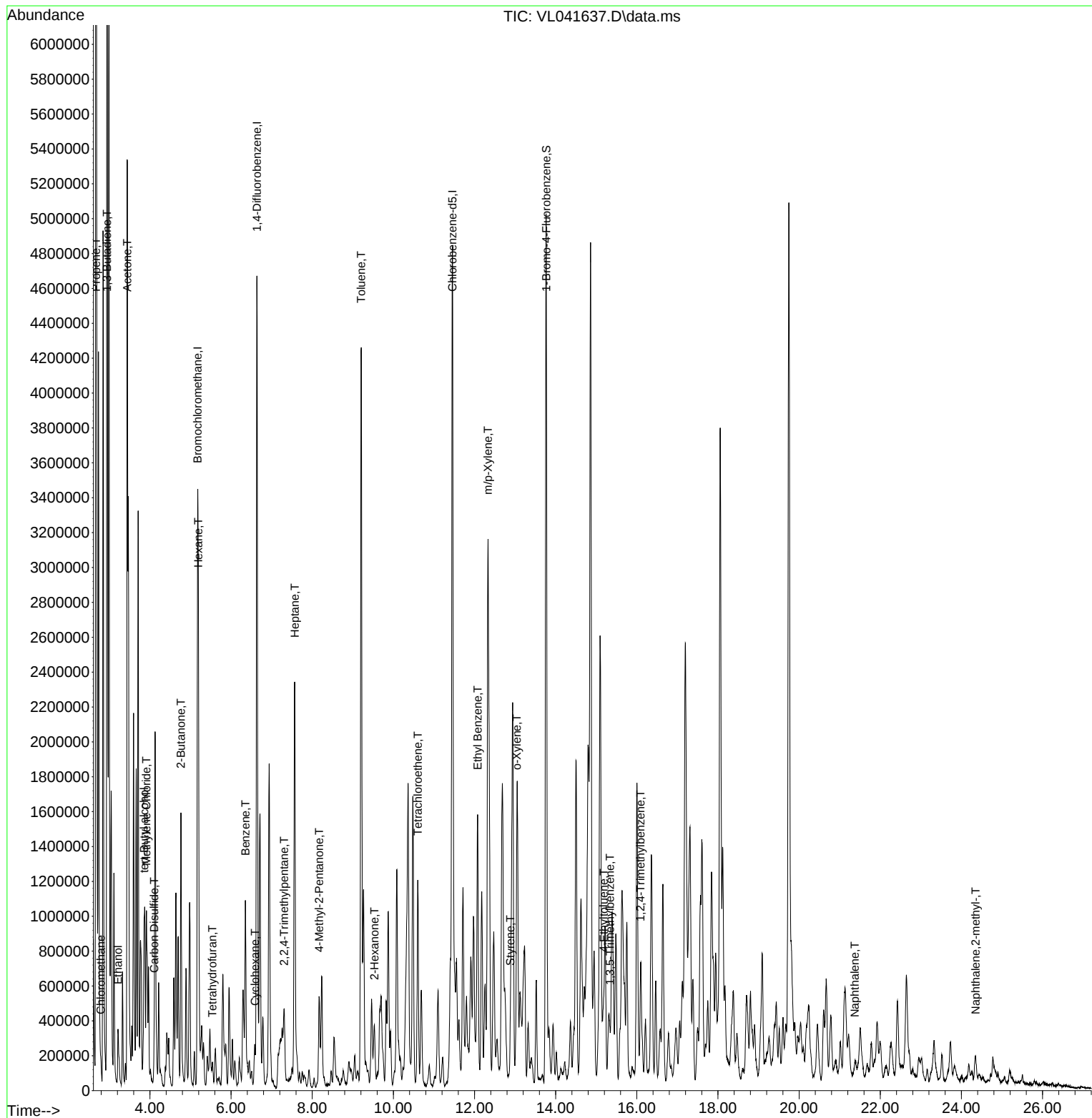
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101024\
Data File : VL041637.D
Acq On : 10 Oct 2024 11:32
Operator : SY/MD
Sample : P4339-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

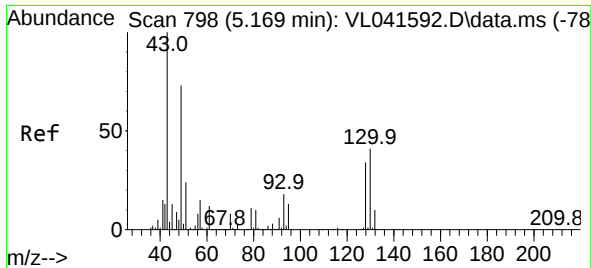
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Oct 11 05:38:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 17 09:12:21 2024
Response via : Initial Calibration

Manual Integrations
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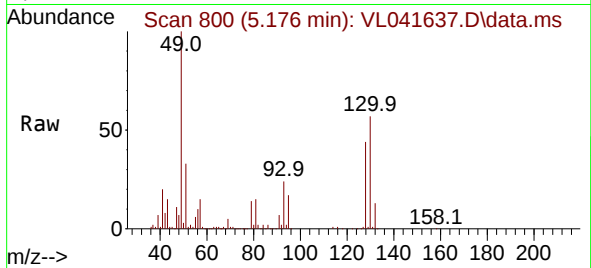
Reviewed By : Semsettin Yesilyurt 10/11/2024
Supervised By : Mahesh Dadoda 10/14/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

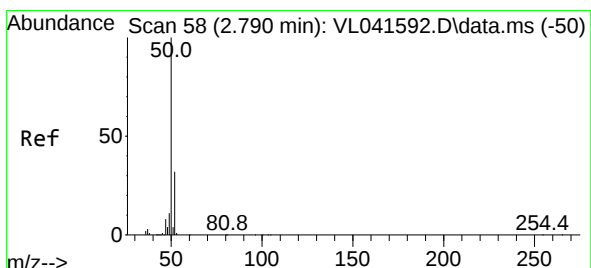
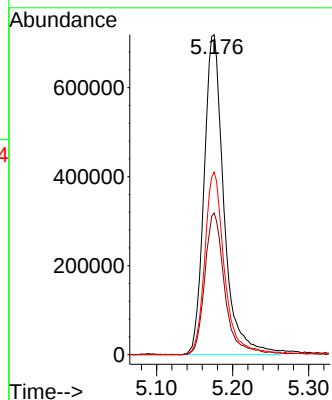
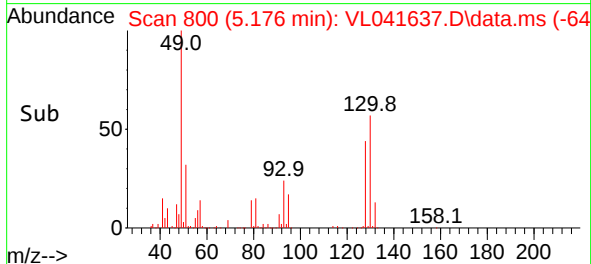
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 130322
Ion Ratio Lower Upper
49 100
128 45.1 23.8 71.5
130 57.6 30.4 91.3

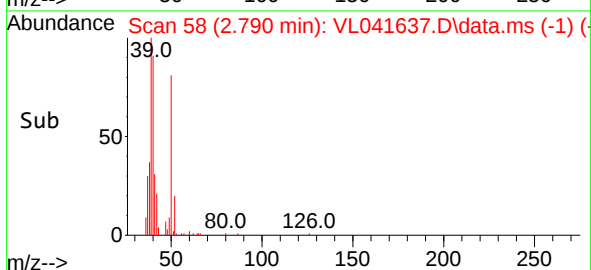
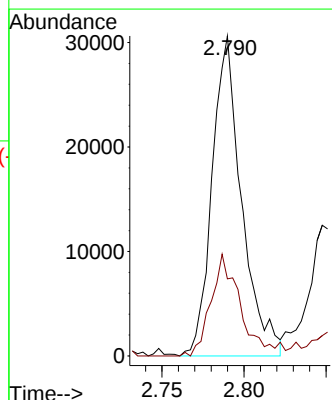
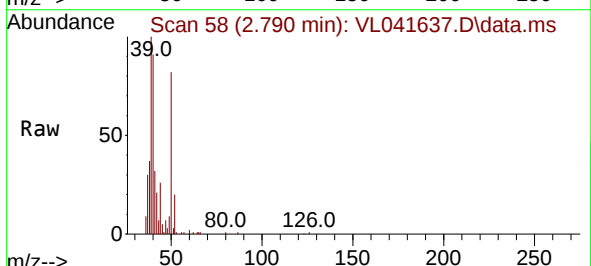
Manual Integrations
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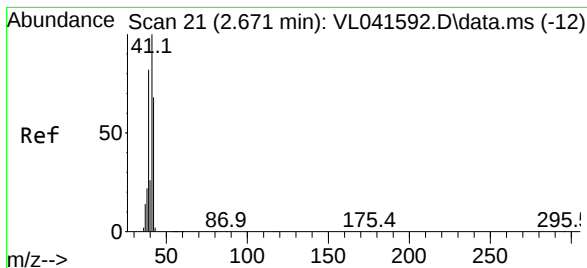
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#4
Chloromethane
Concen: 0.441 ppbv
RT: 2.790 min Scan# 58
Delta R.T. 0.000 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

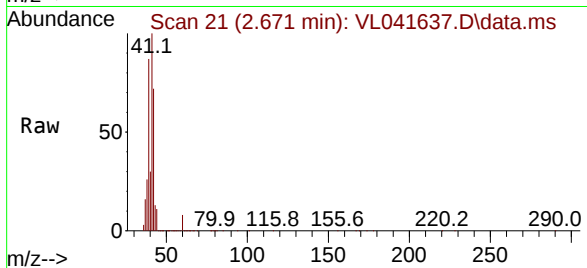
Tgt Ion: 50 Resp: 38310
Ion Ratio Lower Upper
50 100
52 24.9 25.4 38.2#





#9
 Propene
 Concen: 82.900 ppbv
 RT: 2.671 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VL041637.D
 Acq: 10 Oct 2024 11:32

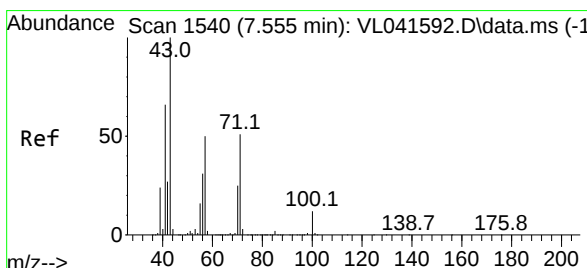
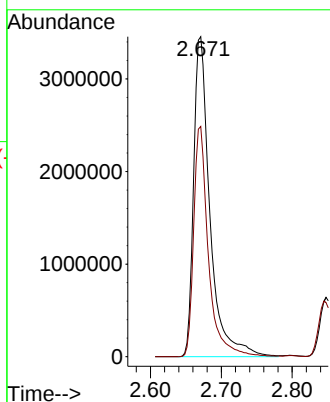
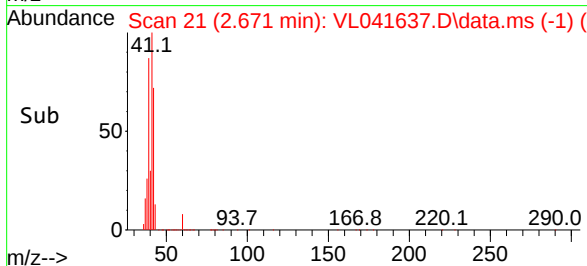
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



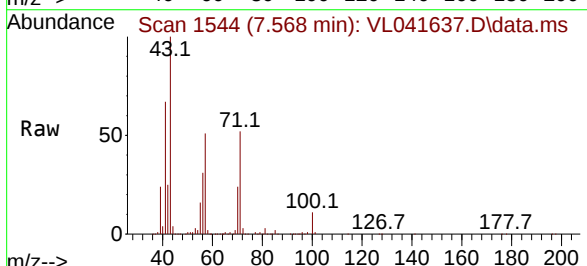
Tgt Ion: 41 Resp: 5527370
 Ion Ratio Lower Upper
 41 100
 42 65.2 55.2 82.8

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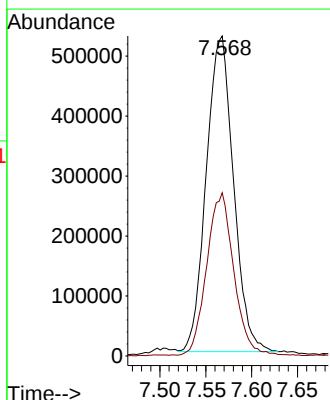
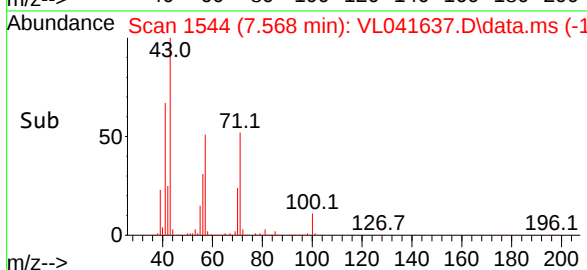
Reviewed By :Semsettin Yesilyurt 10/11/2024
 Supervised By :Mahesh Dadoda 10/14/2024

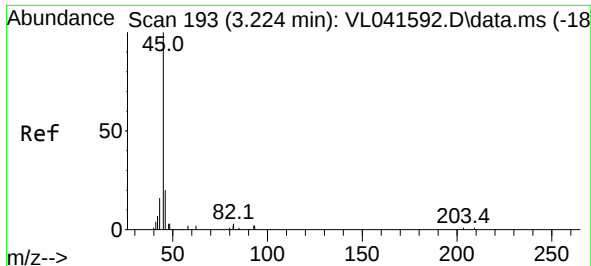


#10
 Heptane
 Concen: 6.976 ppbv
 RT: 7.568 min Scan# 1544
 Delta R.T. 0.013 min
 Lab File: VL041637.D
 Acq: 10 Oct 2024 11:32



Tgt Ion: 43 Resp: 1089022
 Ion Ratio Lower Upper
 43 100
 57 51.6 39.8 59.8





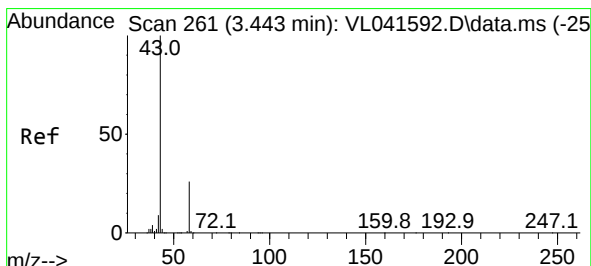
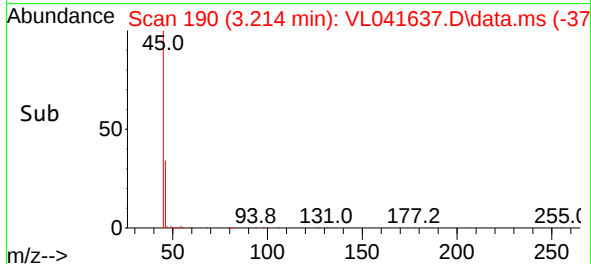
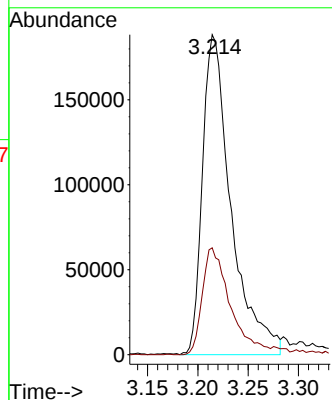
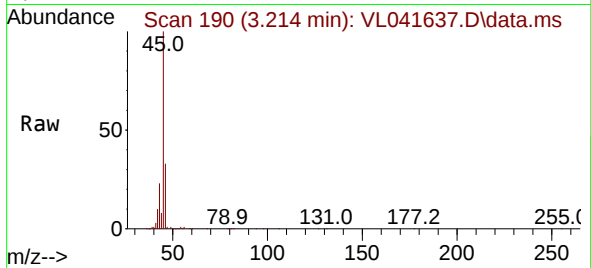
#13
Ethanol
Concen: 74.297 ppbv
RT: 3.214 min Scan# 193
Delta R.T. -0.010 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 37242
Ion Ratio Lower Upper
45 100
46 34.5 15.2 60.8

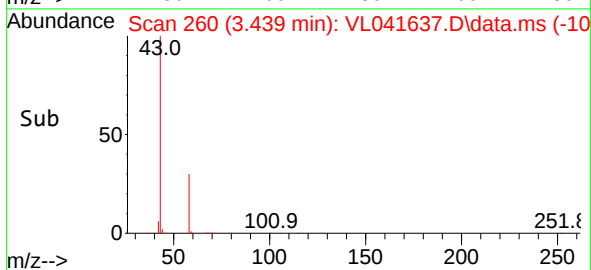
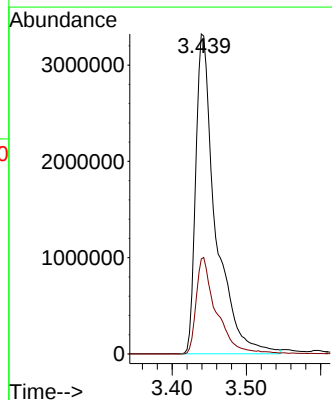
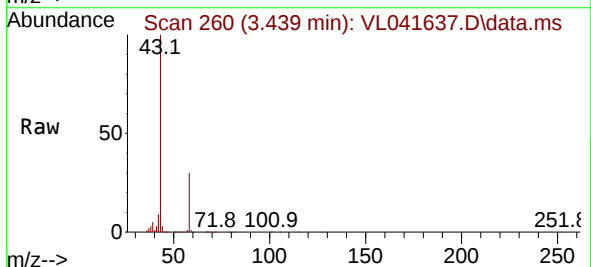
Manual Integrations
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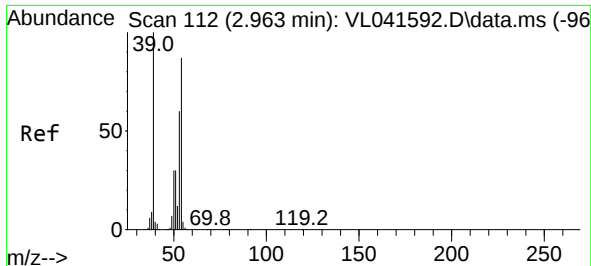
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#15
Acetone
Concen: 37.763 ppbv
RT: 3.439 min Scan# 260
Delta R.T. -0.003 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

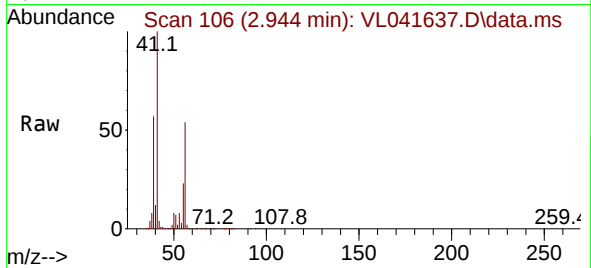
Tgt Ion: 43 Resp: 6178459
Ion Ratio Lower Upper
43 100
58 31.2 21.5 32.3





#16
1,3-Butadiene
Concen: 34.025 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.019 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

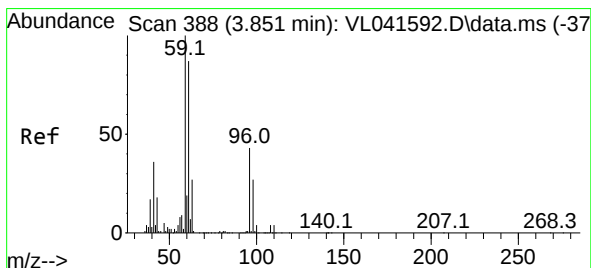
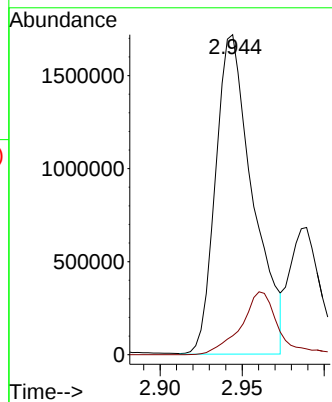
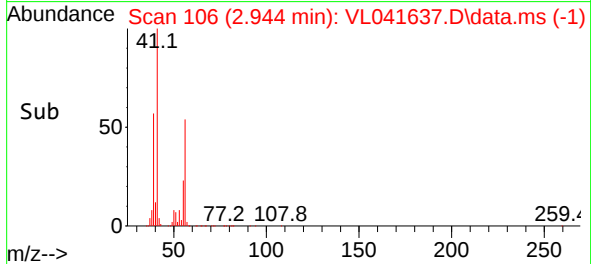
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 39 Resp: 270771
Ion Ratio Lower Upper
39 100
54 20.0 62.9 94.3

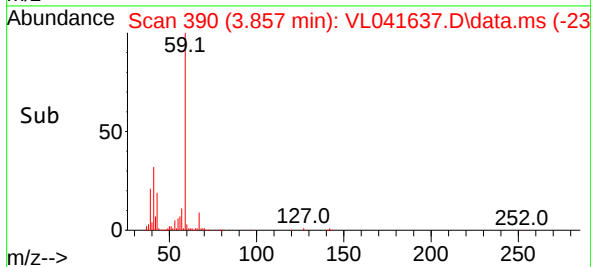
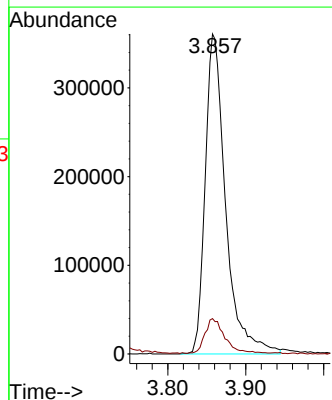
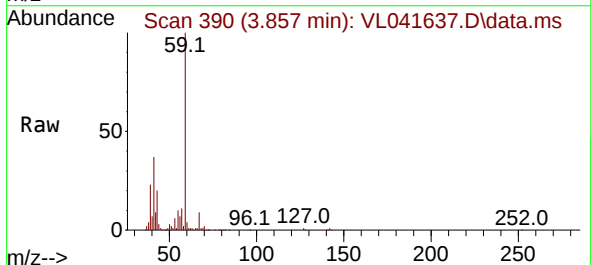
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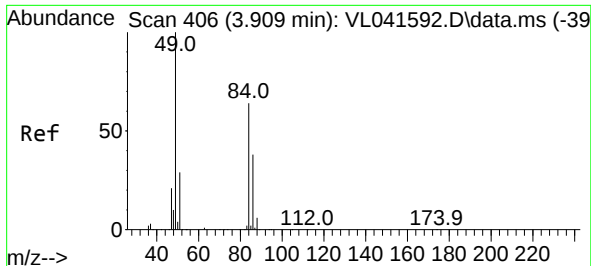
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#17
tert-Butyl alcohol
Concen: 4.563 ppbv
RT: 3.857 min Scan# 390
Delta R.T. 0.006 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

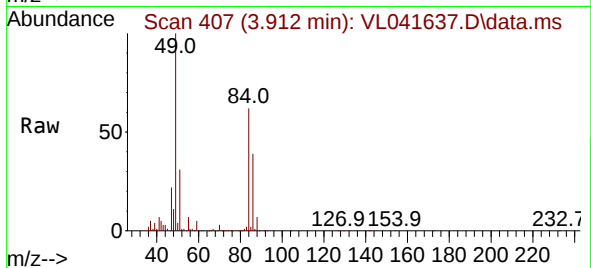
Tgt Ion: 59 Resp: 656633
Ion Ratio Lower Upper
59 100
57 11.7 8.7 13.1





#20
Methylene Chloride
Concen: 4.729 ppbv
RT: 3.912 min Scan# 406
Delta R.T. 0.003 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

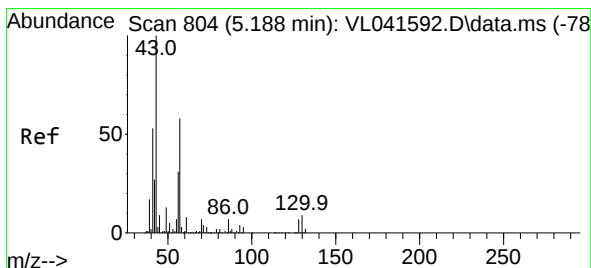
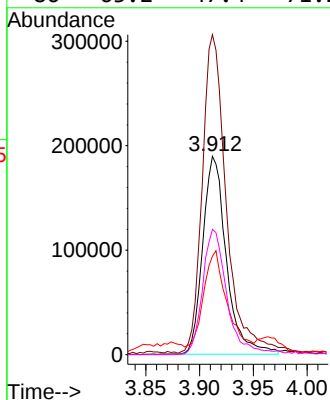
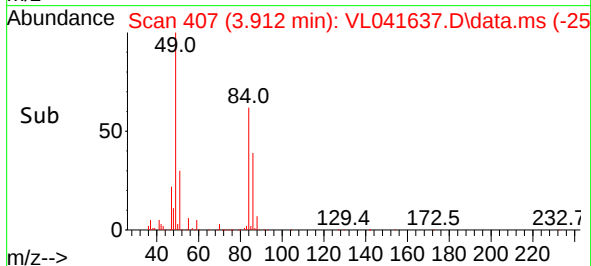
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 29064
Ion Ratio Lower Upper
84 100
49 161.0 124.3 186.5
51 44.5 36.3 54.5
86 63.2 47.4 71.2

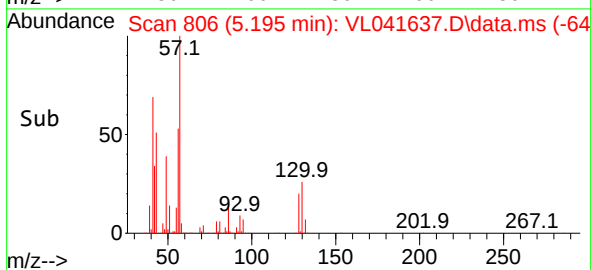
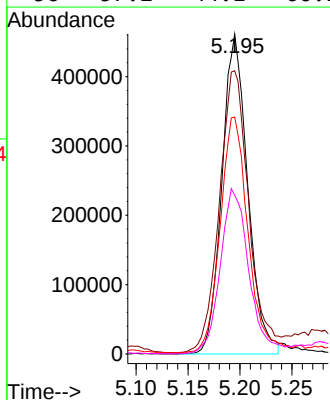
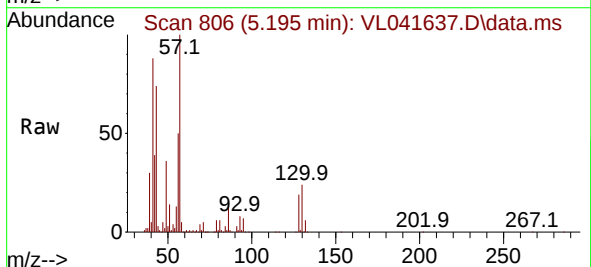
Manual Integrations
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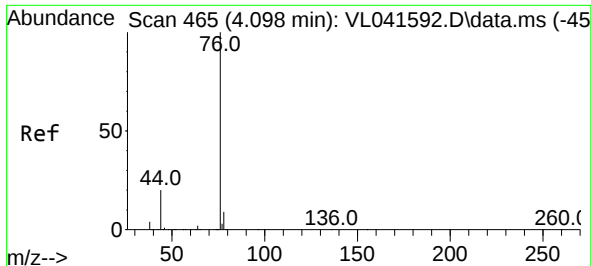
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#26
Hexane
Concen: 6.512 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.006 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

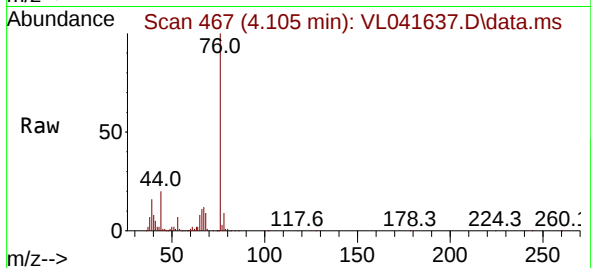
Tgt Ion: 57 Resp: 797652
Ion Ratio Lower Upper
57 100
41 101.3 75.7 113.5
43 80.9 198.5 297.7#
56 57.2 44.1 66.1





#27
Carbon Disulfide
Concen: 2.068 ppbv
RT: 4.105 min Scan# 467
Delta R.T. 0.006 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

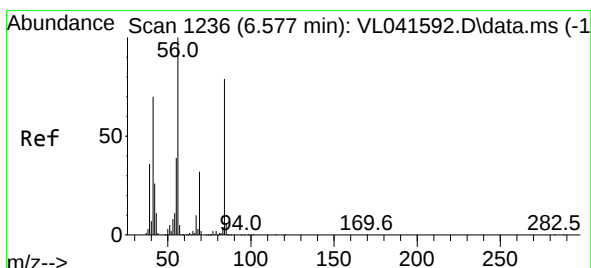
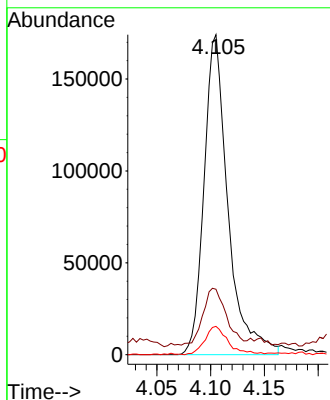
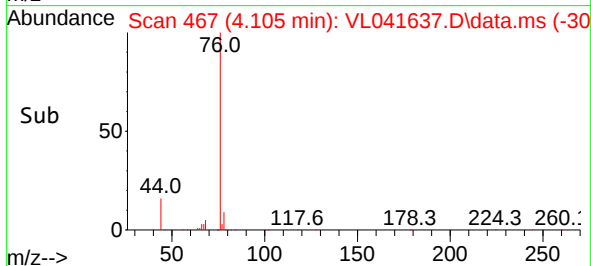
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 76 Resp: 269275
Ion Ratio Lower Upper
76 100
44 21.2 15.8 23.8
78 9.0 7.5 11.3

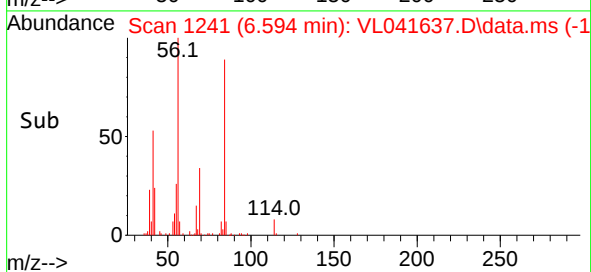
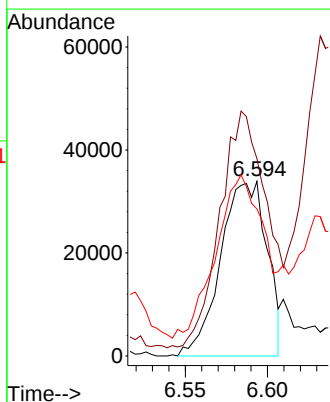
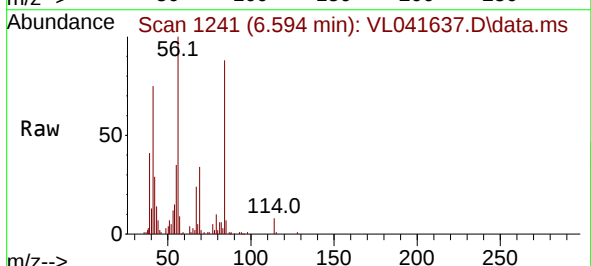
Manual Integrations
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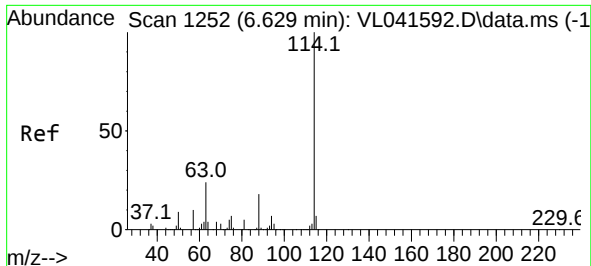
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#30
Cyclohexane
Concen: 0.704 ppbv m
RT: 6.594 min Scan# 1241
Delta R.T. 0.016 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

Tgt Ion: 84 Resp: 66473
Ion Ratio Lower Upper
84 100
56 133.8 111.5 167.3
41 104.4 70.9 106.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 114

Delta R.T. 0.010 min

Lab File: VL041637.D

Acq: 10 Oct 2024 11:32

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:114 Resp: 3472219

Ion Ratio Lower Upper

114 100

63 25.1 20.2 30.2

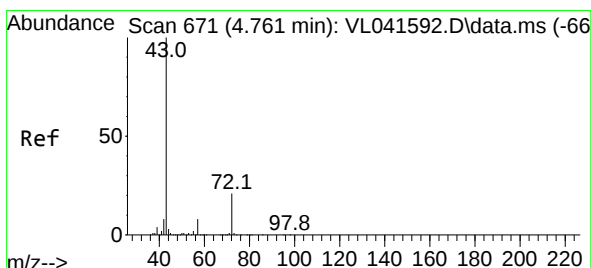
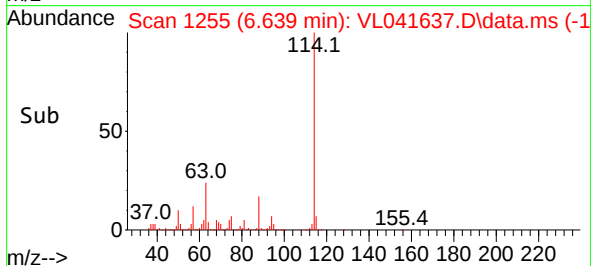
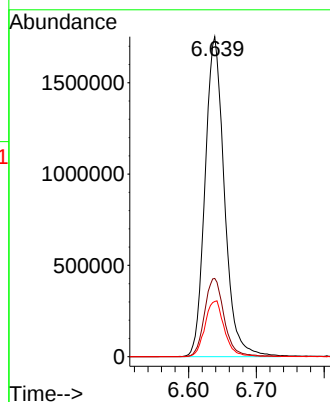
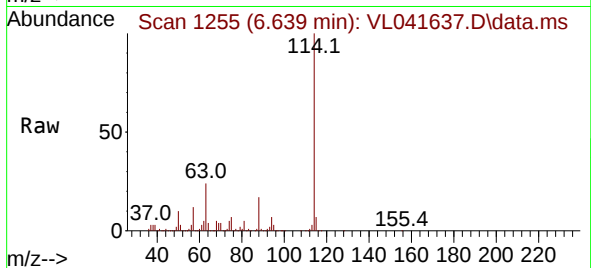
88 17.7 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024

Supervised By :Mahesh Dadoda 10/14/2024



#34

2-Butanone

Concen: 10.613 ppbv

RT: 4.764 min Scan# 672

Delta R.T. 0.003 min

Lab File: VL041637.D

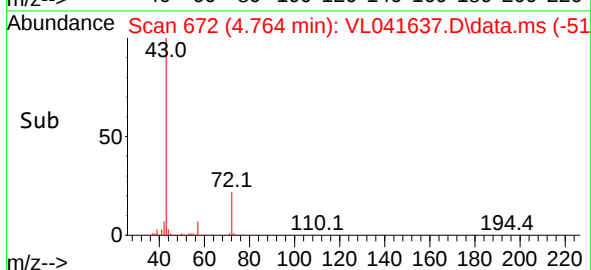
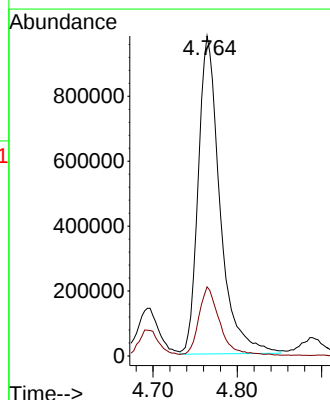
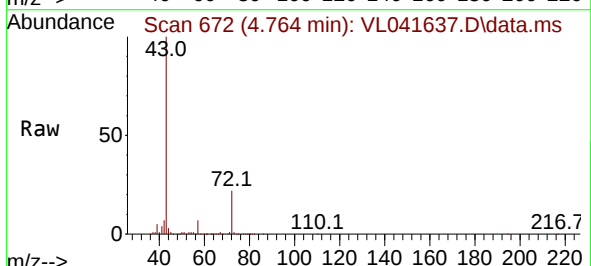
Acq: 10 Oct 2024 11:32

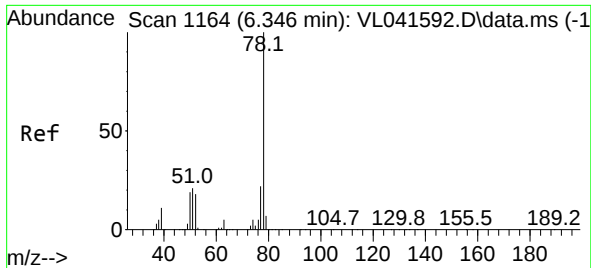
Tgt Ion: 43 Resp: 1757184

Ion Ratio Lower Upper

43 100

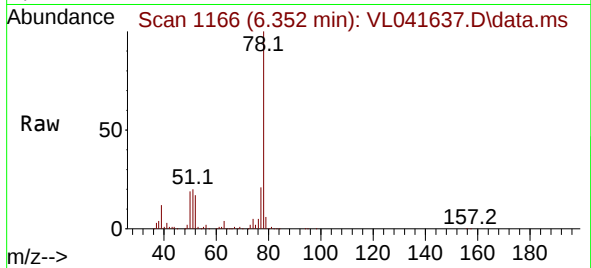
72 21.0 16.8 25.2





#36
Benzene
Concen: 3.563 ppbv
RT: 6.352 min Scan# 1166
Delta R.T. 0.006 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

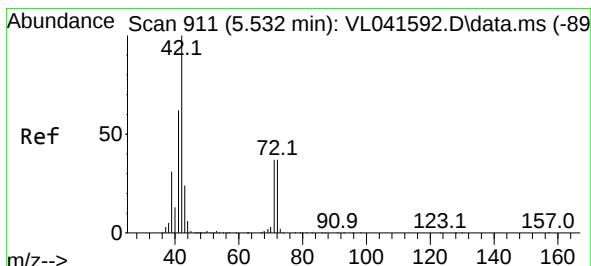
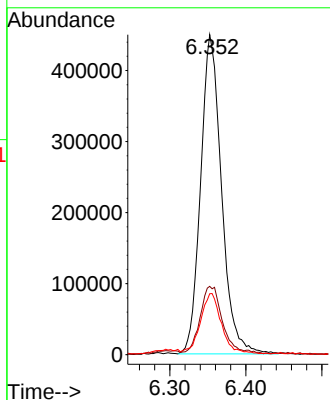
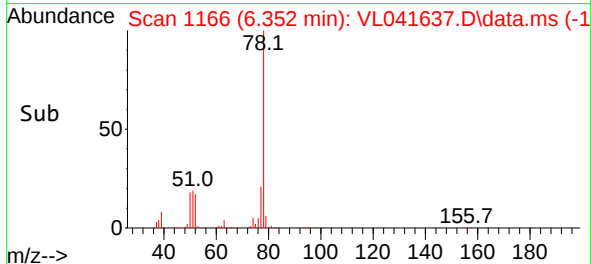
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 78 Resp: 85906
Ion Ratio Lower Upper
78 100
77 20.9 17.8 26.6
50 18.7 15.4 23.0

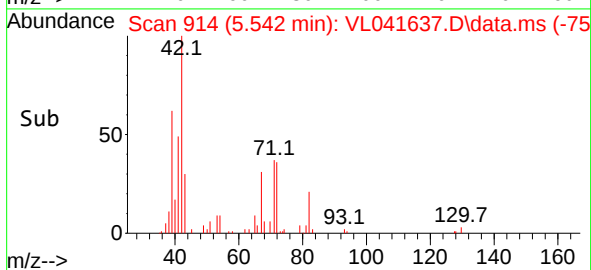
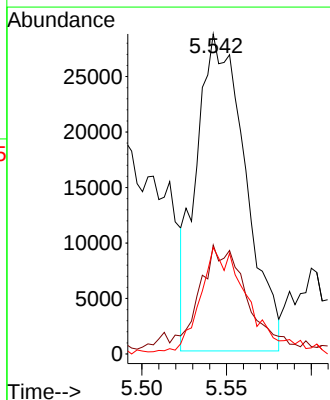
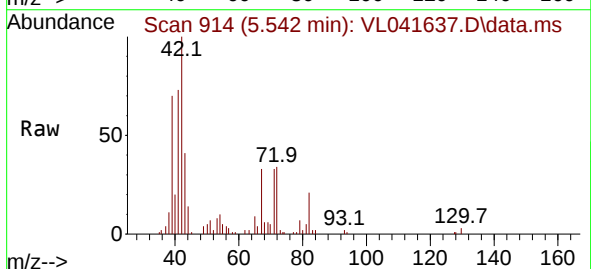
Manual Integrations
APPROVED

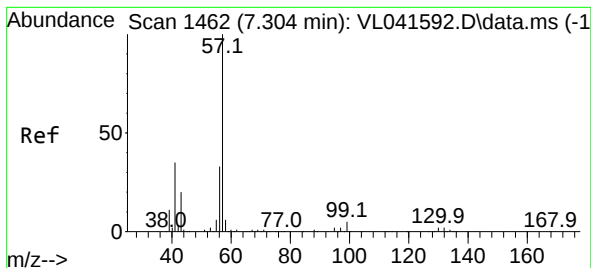
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#41
Tetrahydrofuran
Concen: 0.627 ppbv m
RT: 5.542 min Scan# 914
Delta R.T. 0.010 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

Tgt Ion: 42 Resp: 57150
Ion Ratio Lower Upper
42 100
72 40.6 30.2 45.2
71 35.1 29.6 44.4





#44

2,2,4-Trimethylpentane

Concen: 0.557 ppbv

RT: 7.311 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VL041637.D

Acq: 10 Oct 2024 11:32

Instrument :

MSVOA_L

ClientSampleId :

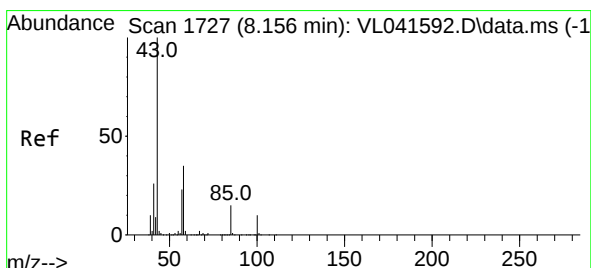
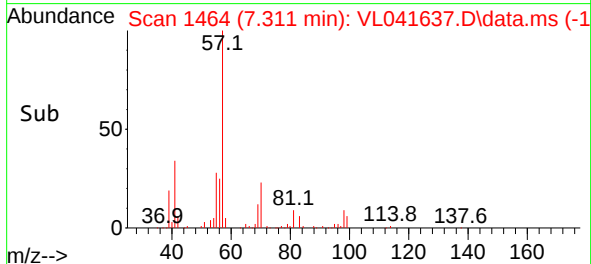
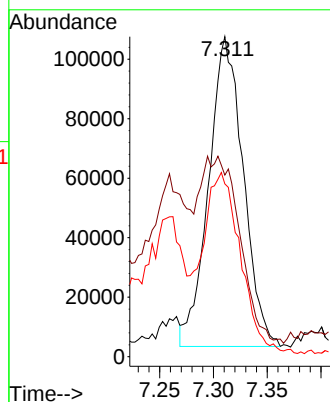
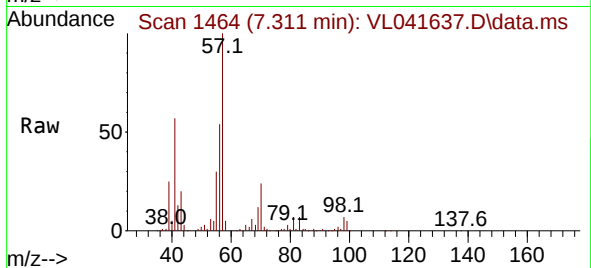
SV1

Tgt Ion: 57	Resp: 232580
Ion Ratio	Lower Upper
57 100	
41 74.6	27.0 40.6
56 63.9	25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#50

4-Methyl-2-Pentanone

Concen: 1.597 ppbv

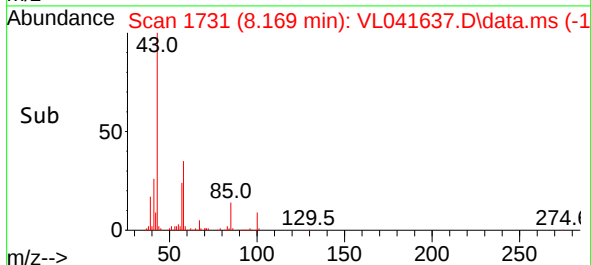
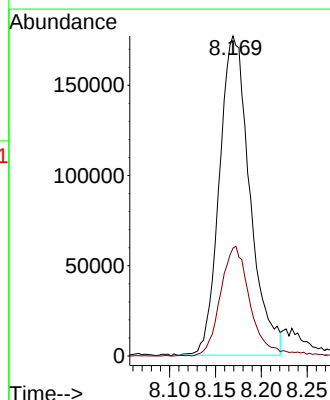
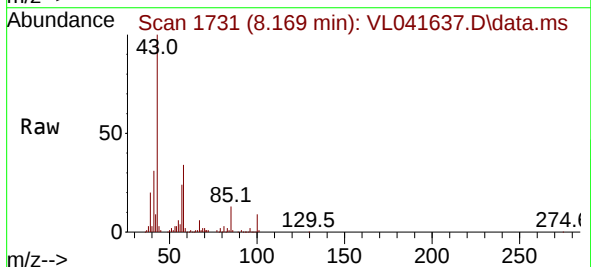
RT: 8.169 min Scan# 1731

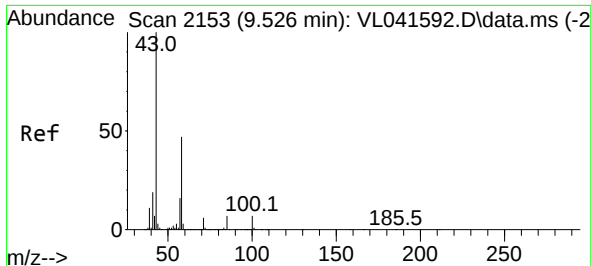
Delta R.T. 0.013 min

Lab File: VL041637.D

Acq: 10 Oct 2024 11:32

Tgt Ion: 43	Resp: 408199
Ion Ratio	Lower Upper
43 100	
58 34.2	27.8 41.8





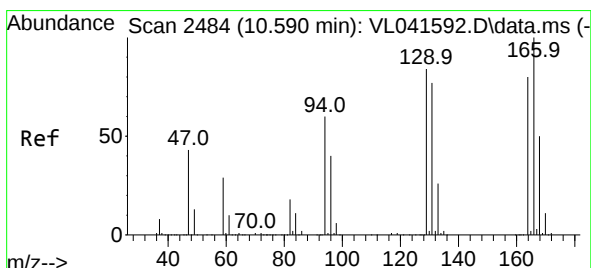
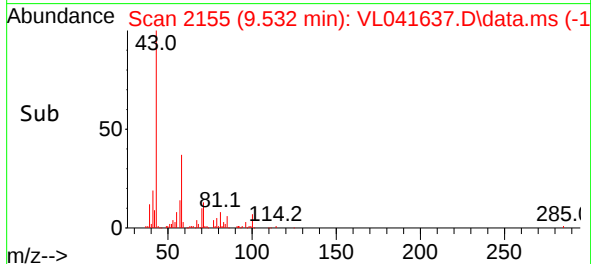
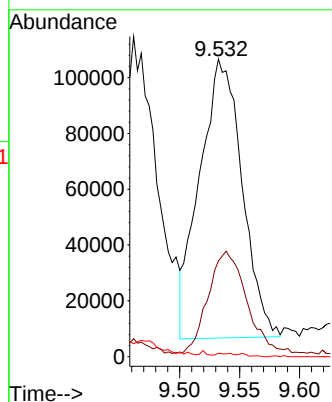
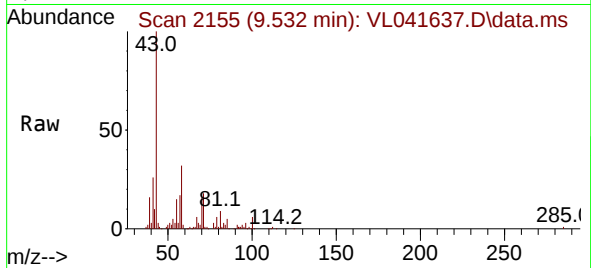
#51
2-Hexanone
Concen: 1.271 ppbv
RT: 9.532 min Scan# 2153
Delta R.T. 0.006 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 245732
Ion Ratio Lower Upper
43 100
58 33.2 37.2 55.8
98 1.2 0.5 0.7

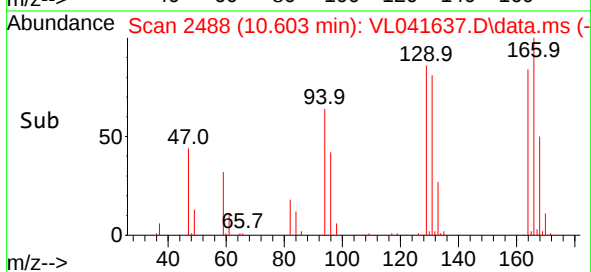
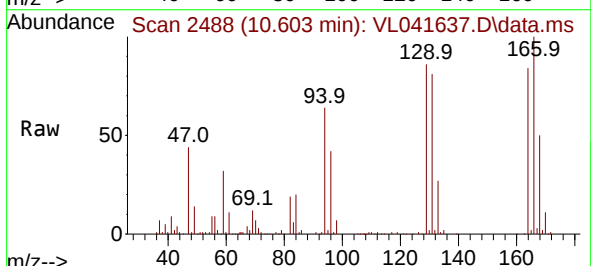
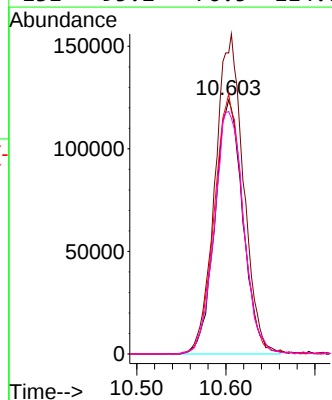
Manual Integrations
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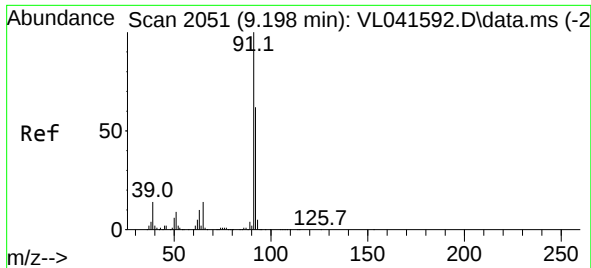
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#52
Tetrachloroethene
Concen: 3.089 ppbv
RT: 10.603 min Scan# 2488
Delta R.T. 0.013 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

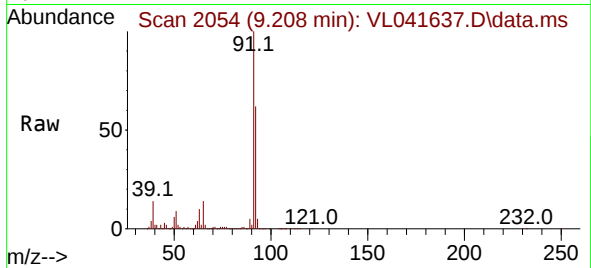
Tgt Ion:164 Resp: 269711
Ion Ratio Lower Upper
164 100
166 118.5 99.4 149.2
129 102.4 83.5 125.3
131 95.2 76.5 114.7





#53
Toluene
Concen: 13.599 ppbv
RT: 9.208 min Scan# 2051
Delta R.T. 0.010 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

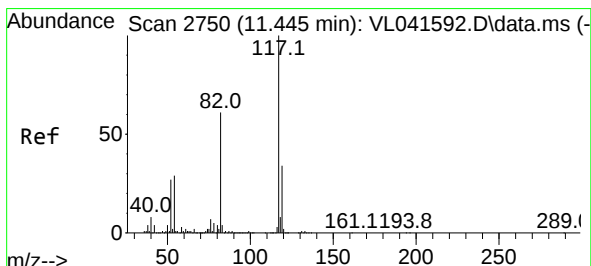
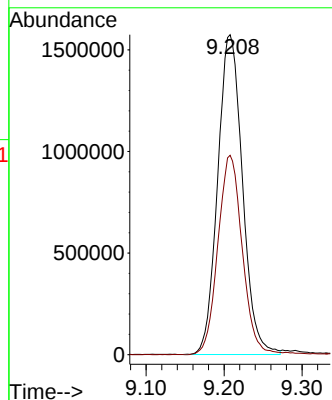
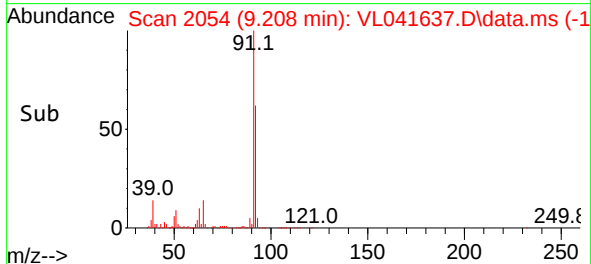
Instrument :
MSVOA_L
ClientSampleId :
SV1



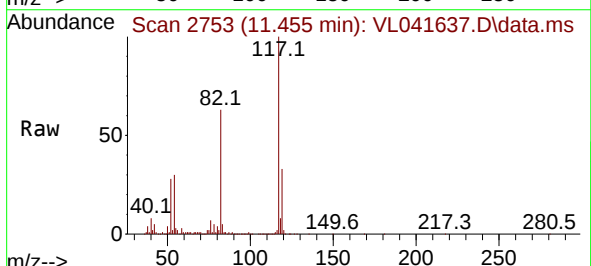
Tgt Ion: 91 Resp: 3481030
Ion Ratio Lower Upper
91 100
92 61.8 48.9 73.3

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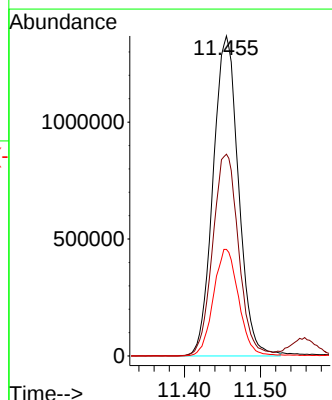
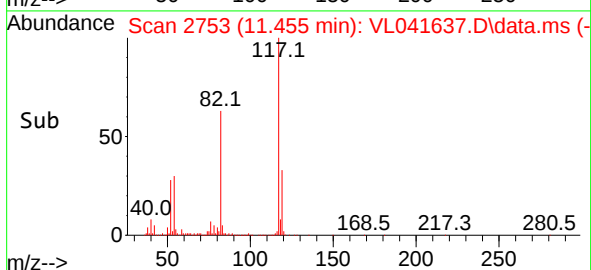
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024

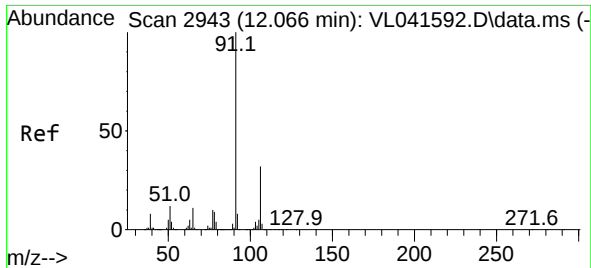


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. 0.010 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32



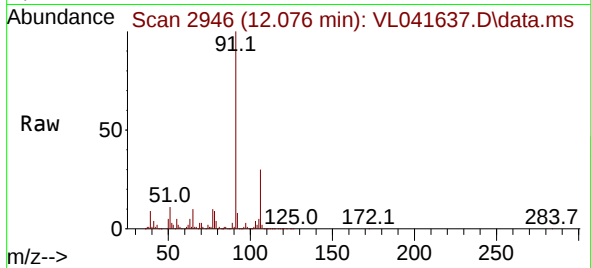
Tgt Ion:117 Resp: 3176144
Ion Ratio Lower Upper
117 100
82 64.2 49.4 74.2
119 33.3 24.4 36.6





#58
Ethyl Benzene
Concen: 3.823 ppbv
RT: 12.076 min Scan# 2946
Delta R.T. 0.010 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

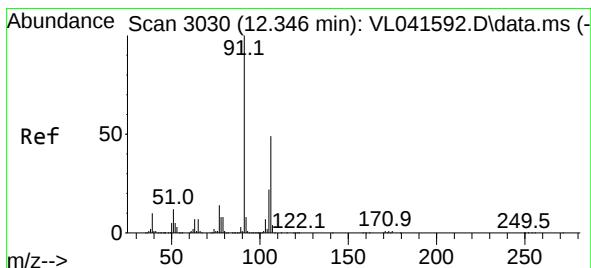
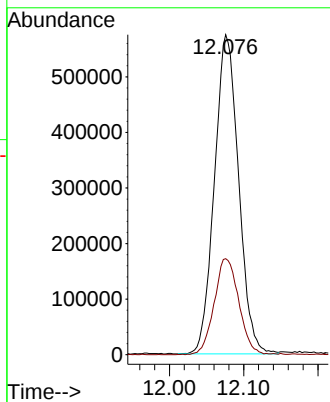
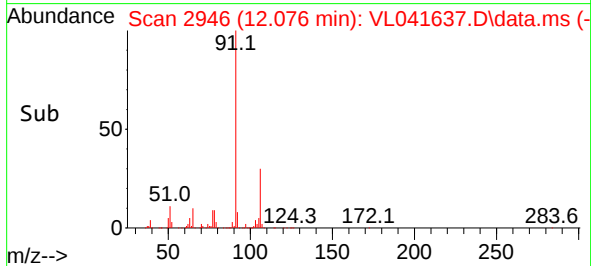
Instrument :
MSVOA_L
ClientSampleId :
SV1



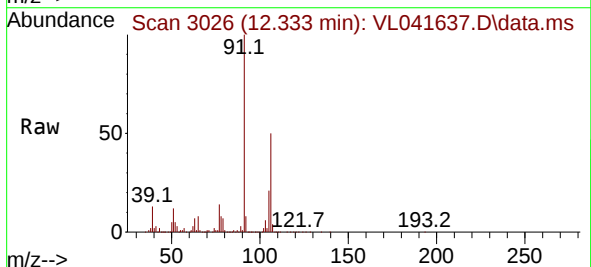
Tgt Ion: 91 Resp: 1299930
Ion Ratio Lower Upper
91 100
106 30.0 25.8 38.6

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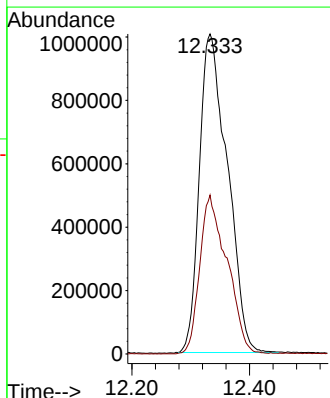
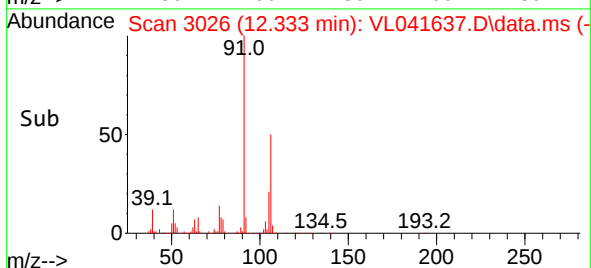
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024

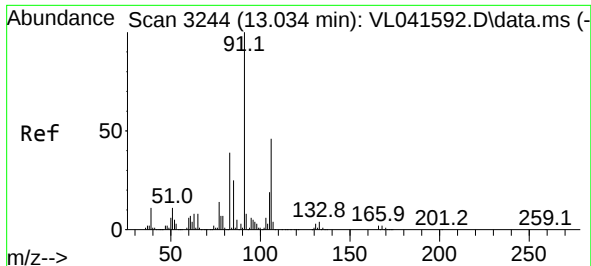


#59
m/p-Xylene
Concen: 10.982 ppbv
RT: 12.333 min Scan# 3026
Delta R.T. -0.013 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32



Tgt Ion: 91 Resp: 3323256
Ion Ratio Lower Upper
91 100
106 48.6 36.8 55.2





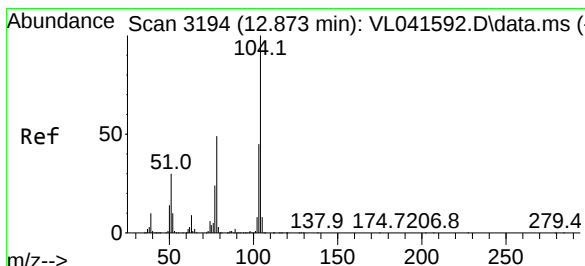
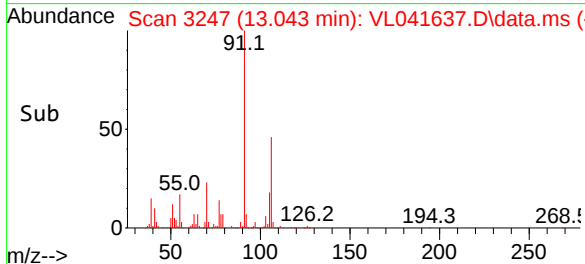
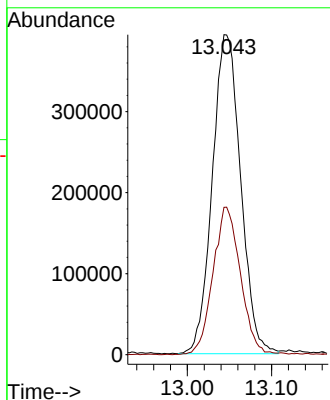
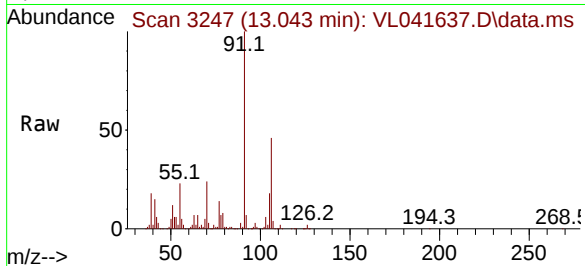
#60
o-Xylene
Concen: 3.170 ppbv
RT: 13.043 min Scan# 3197
Delta R.T. 0.010 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 919710
Ion Ratio Lower Upper
91 100
106 45.4 23.1 69.3

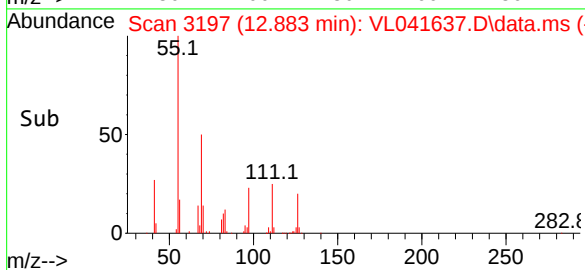
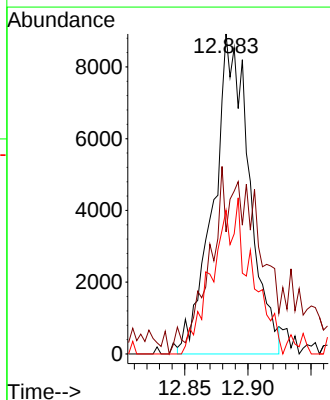
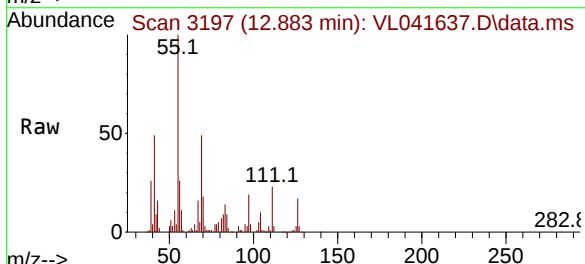
Manual Integrations
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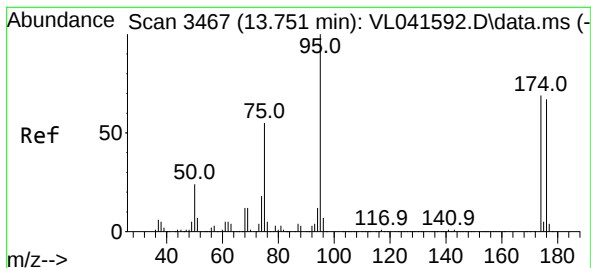
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#61
Styrene
Concen: 0.146 ppbv m
RT: 12.883 min Scan# 3197
Delta R.T. 0.010 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

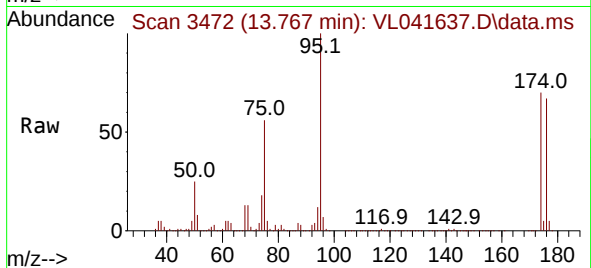
Tgt Ion:104 Resp: 17683
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 0.0 37.4 56.0#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.462 ppbv
RT: 13.767 min Scan# 3467
Delta R.T. 0.016 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

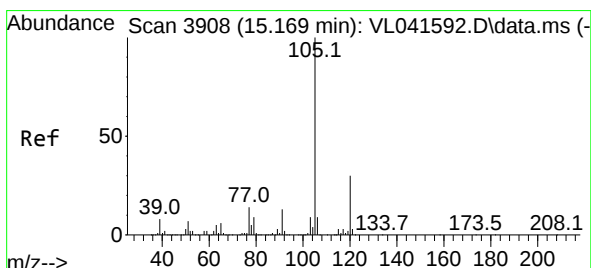
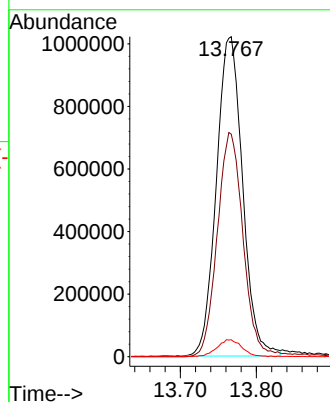
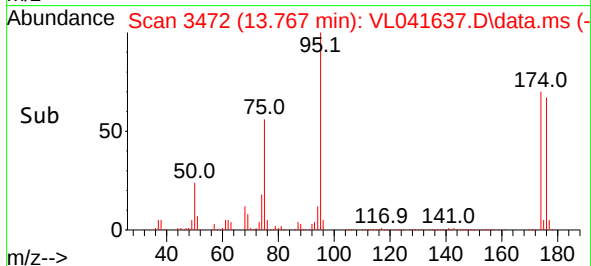
Instrument :
MSVOA_L
ClientSampleId :
SV1



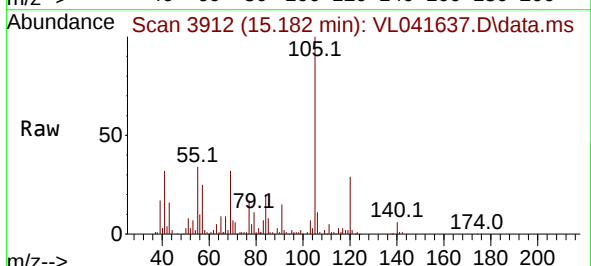
Tgt Ion: 95 Resp: 2446090
Ion Ratio Lower Upper
95 100
174 69.7 55.8 83.8
175 5.2 4.1 6.1

Manual Integrations
APPROVED

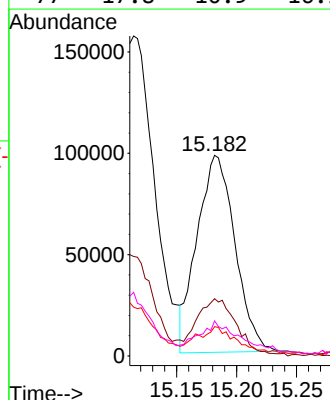
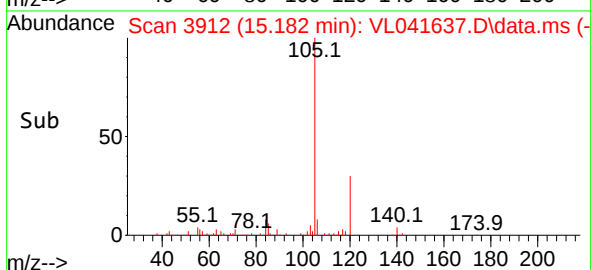
Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024

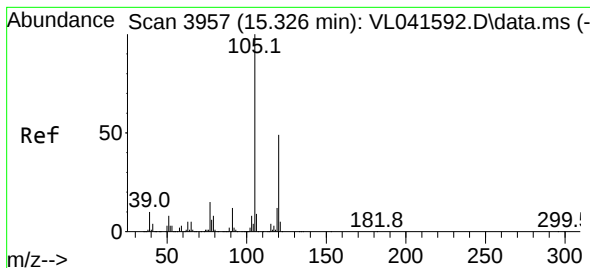


#72
4-Ethyltoluene
Concen: 0.630 ppbv
RT: 15.182 min Scan# 3912
Delta R.T. 0.013 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32



Tgt Ion:105 Resp: 213704
Ion Ratio Lower Upper
105 100
120 31.7 24.1 36.1
91 14.4 10.2 15.2
77 17.8 10.9 16.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.318 ppbv

RT: 15.339 min Scan# 3957

Delta R.T. 0.013 min

Lab File: VL041637.D

Acq: 10 Oct 2024 11:32

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 95120

Ion Ratio Lower Upper

105 100

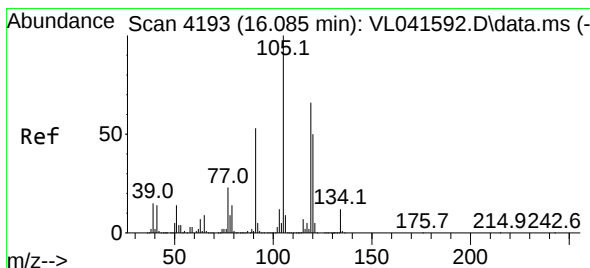
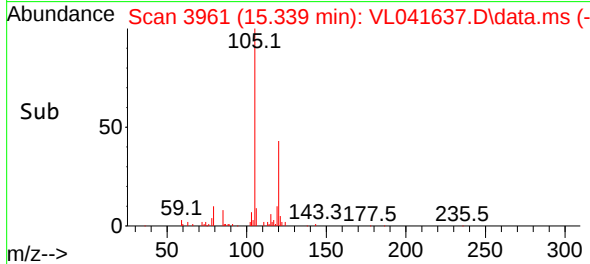
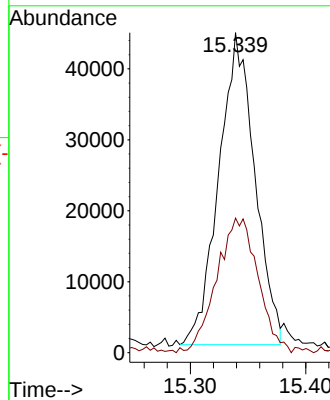
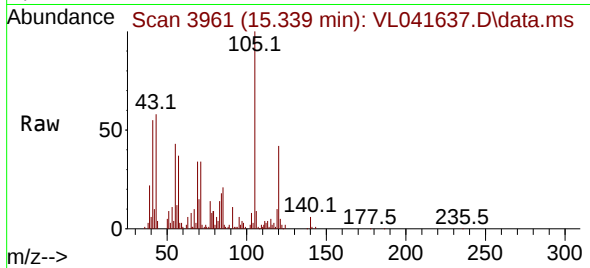
120 41.7 39.4 59.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024

Supervised By :Mahesh Dadoda 10/14/2024



#74

1,2,4-Trimethylbenzene

Concen: 1.187 ppbv

RT: 16.092 min Scan# 4195

Delta R.T. 0.006 min

Lab File: VL041637.D

Acq: 10 Oct 2024 11:32

Tgt Ion:105 Resp: 416217

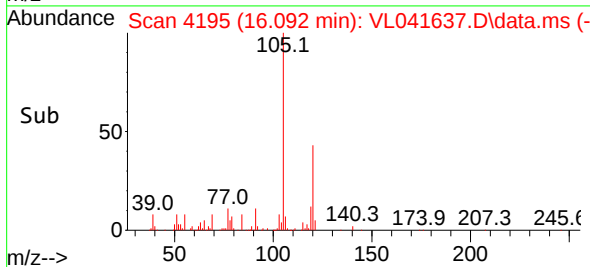
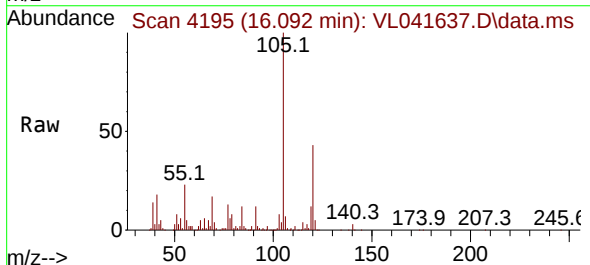
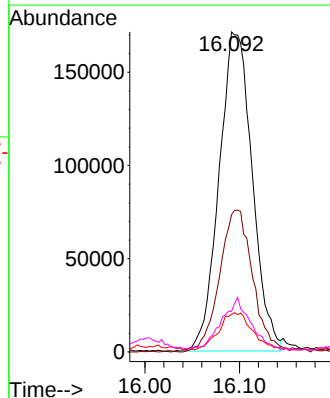
Ion Ratio Lower Upper

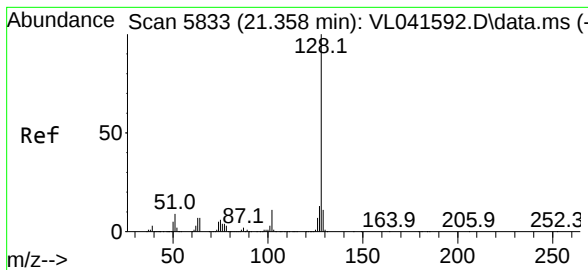
105 100

120 43.1 39.9 59.9

91 10.9 42.6 63.8#

77 11.3 18.2 27.2#





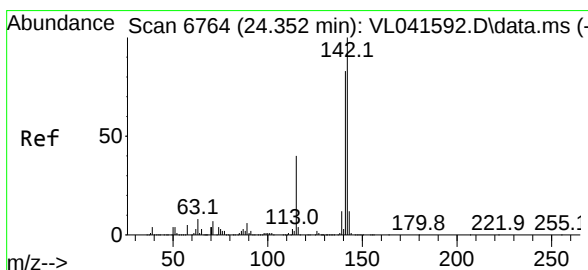
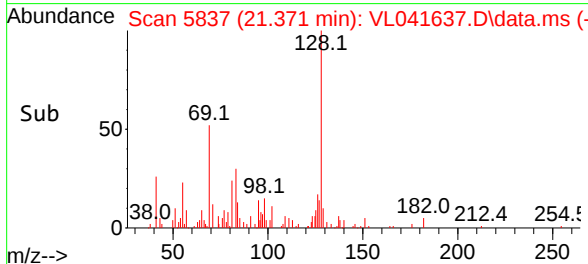
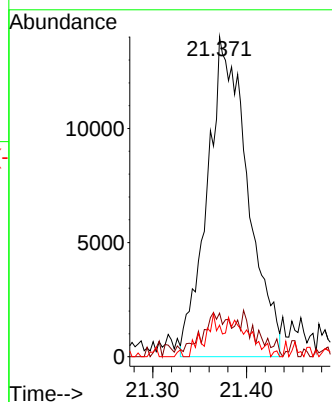
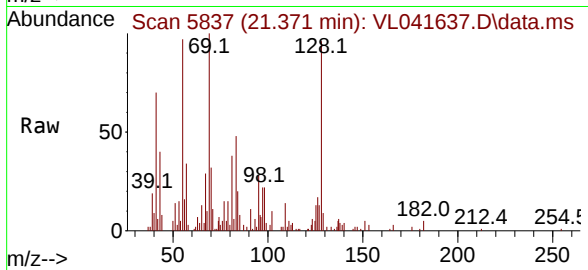
#79
Naphthalene
Concen: 0.163 ppbv m
RT: 21.371 min Scan# 5837
Delta R.T. 0.013 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:	128	Resp:	41934
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.1	15.1
129	9.8	9.1	13.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/11/2024
Supervised By :Mahesh Dadoda 10/14/2024



#80
Naphthalene, 2-methyl-
Concen: 0.188 ppbv
RT: 24.355 min Scan# 6765
Delta R.T. 0.003 min
Lab File: VL041637.D
Acq: 10 Oct 2024 11:32

Tgt Ion:	142	Resp:	33961
Ion Ratio	Lower	Upper	
142	100		
141	77.4	66.3	99.5
115	37.6	31.4	47.2

