

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
 Data File : VL041624.D
 Acq On : 25 Sep 2024 15:15
 Operator : SY/MD
 Sample : P4174-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/26/2024
 Supervised By :Mahesh Dadoda 09/26/2024

Quant Time: Sep 26 01:20:11 2024

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	5.169	49	984915	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	2630467	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2395289	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1805386	10.239	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.400%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.697	85	34667m	0.244	ppbv	
3) Chlorodifluoromethane	2.645	51	416875	3.490	ppbv	99
4) Chloromethane	2.784	50	34196m	0.520	ppbv	
9) Propene	2.674	41	77138	1.531	ppbv #	70
11) Trichlorofluoromethane	3.536	101	33046	0.218	ppbv	96
13) Ethanol	3.218	45	2004921	529.238	ppbv	95
15) Acetone	3.436	43	2905446	23.497	ppbv	100
19) Isopropyl Alcohol	3.565	45	24001410	379.178	ppbv #	97
20) Methylene Chloride	3.906	84	23593	0.508	ppbv	97
26) Hexane	5.189	57	15421m	0.167	ppbv	
29) Chloroform	5.250	83	102851	0.679	ppbv #	82
34) 2-Butanone	4.767	43	105134	0.838	ppbv	95
35) Carbon Tetrachloride	6.468	117	12700m	0.098	ppbv	
36) Benzene	6.349	78	20609	0.113	ppbv	95
41) Tetrahydrofuran	5.546	42	14734m	0.213	ppbv	
43) Methyl Methacrylate	7.455	69	37627m	0.576	ppbv	
50) 4-Methyl-2-Pentanone	8.166	43	36796m	0.190	ppbv	
52) Tetrachloroethene	10.610	164	3939m	0.060	ppbv	
53) Toluene	9.201	91	42438	0.219	ppbv	95
58) Ethyl Benzene	12.073	91	45335m	0.177	ppbv	
59) m/p-Xylene	12.327	91	169121	0.741	ppbv	95
60) o-Xylene	13.044	91	70252m	0.321	ppbv	
64) n-propylbenzene	14.905	120	18495m	0.216	ppbv	
72) 4-Ethyltoluene	15.172	105	100202	0.392	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.343	105	85416m	0.378	ppbv	
74) 1,2,4-Trimethylbenzene	16.092	105	253845	0.960	ppbv #	73
79) Naphthalene	21.381	128	36961m	0.190	ppbv	

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

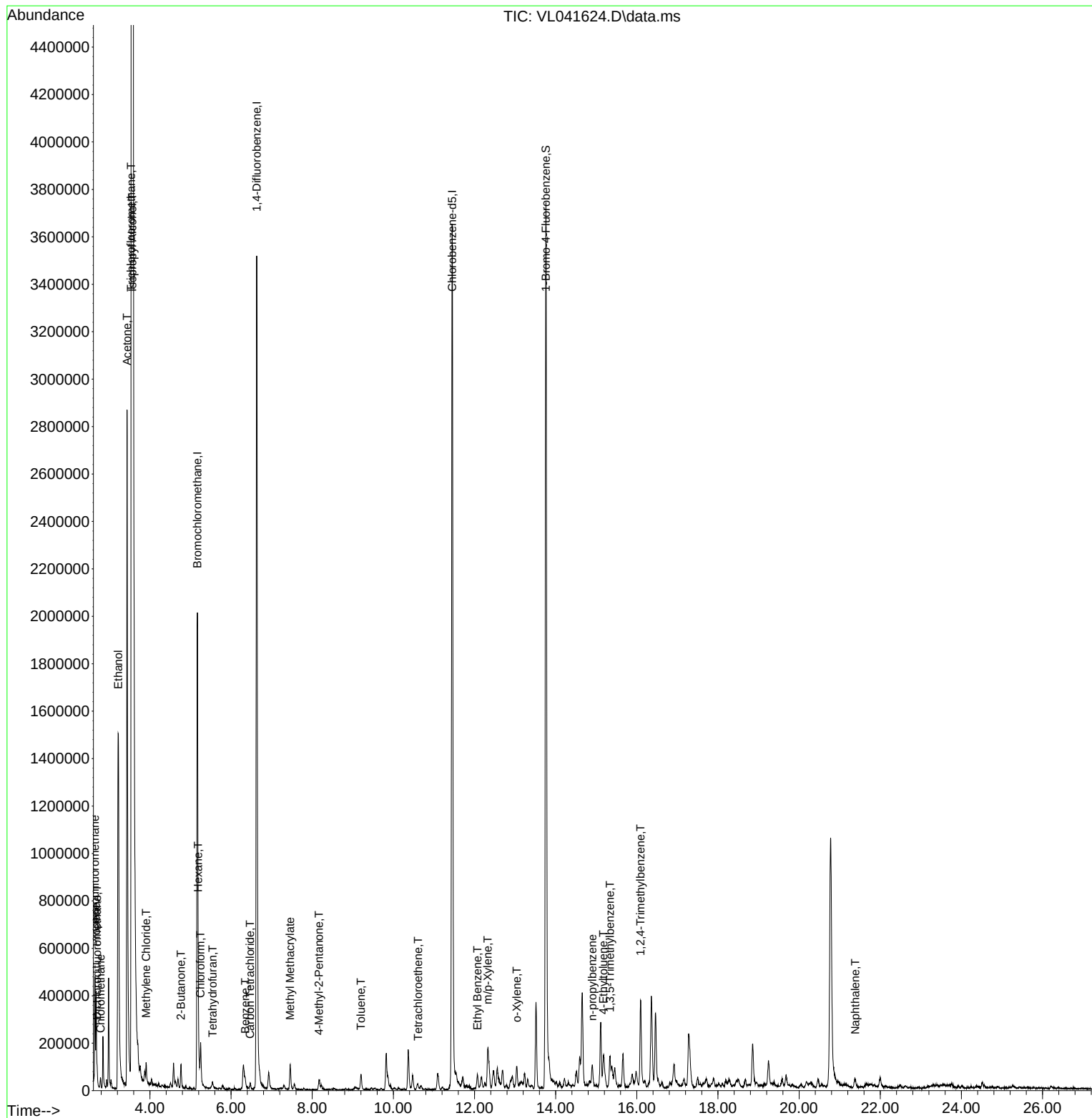
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
Data File : VL041624.D
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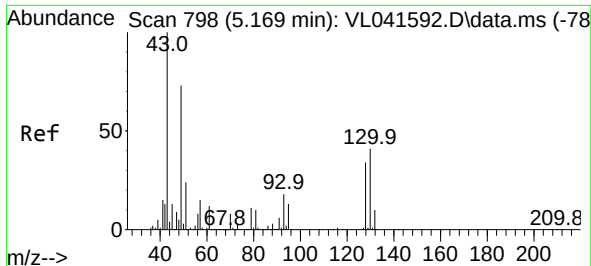
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Sep 26 01:20:11 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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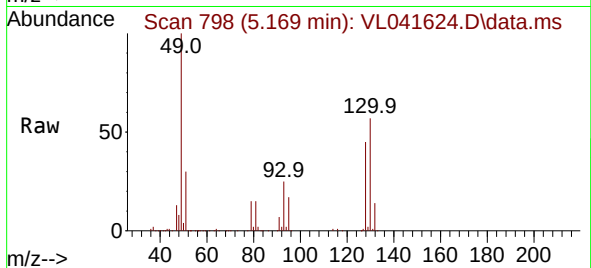
Reviewed By : Semsettin Yesilyurt 09/26/2024
Supervised By : Mahesh Dadoda 09/26/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 798
Delta R.T. 0.000 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

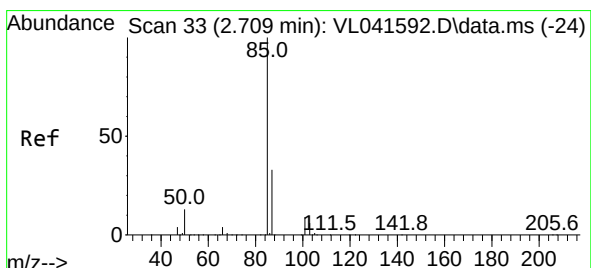
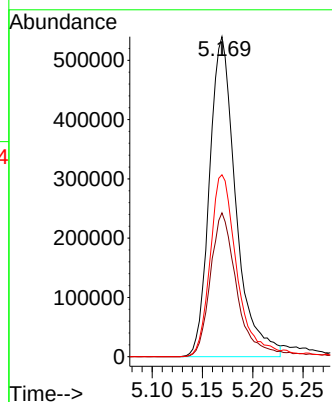
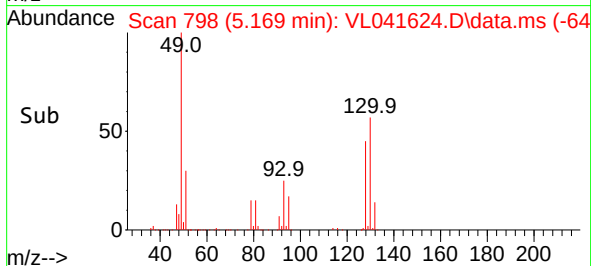
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 984915
Ion Ratio Lower Upper
49 100
128 46.6 23.8 71.5
130 60.3 30.4 91.3

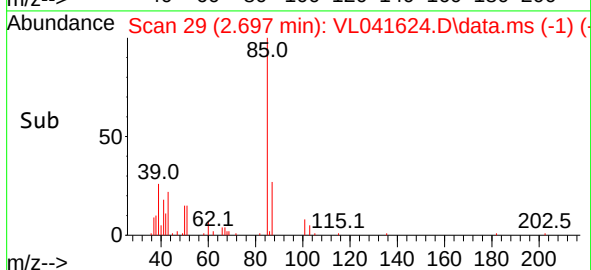
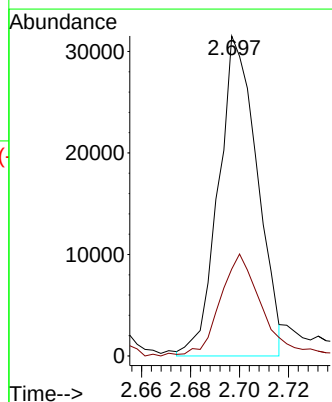
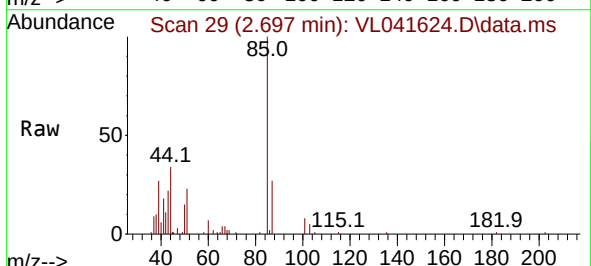
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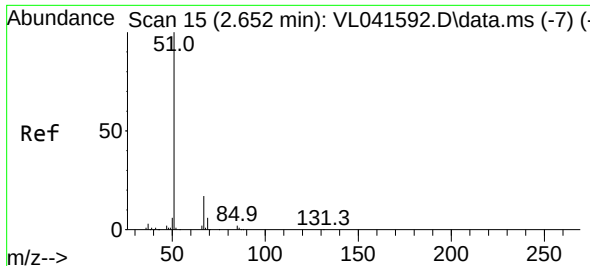
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#2
Dichlorodifluoromethane
Concen: 0.244 ppbv m
RT: 2.697 min Scan# 29
Delta R.T. -0.013 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

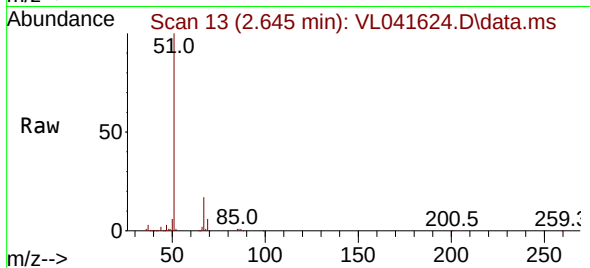
Tgt Ion: 85 Resp: 34667
Ion Ratio Lower Upper
85 100
87 27.1 26.3 39.5





#3
Chlorodifluoromethane
Concen: 3.490 ppbv
RT: 2.645 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

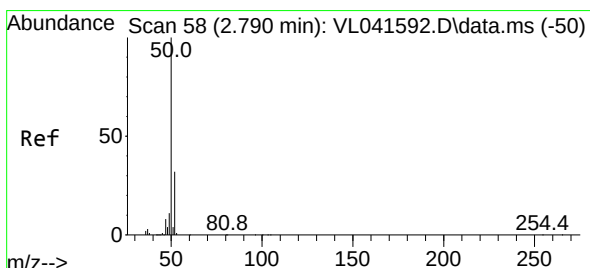
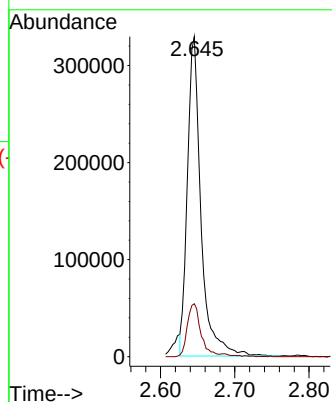
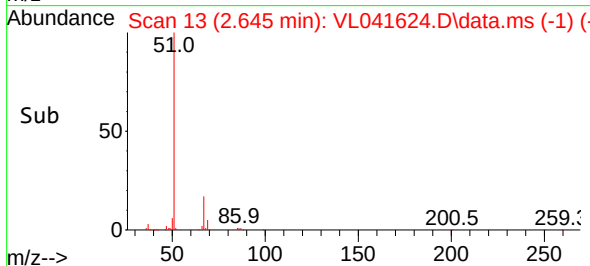
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 416879
Ion Ratio Lower Upper
51 100
67 17.4 14.1 21.1

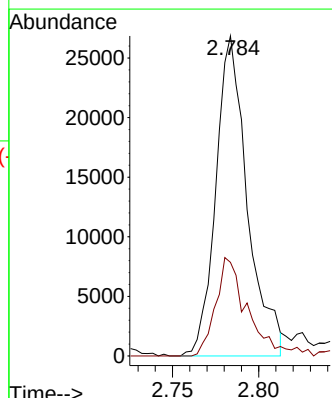
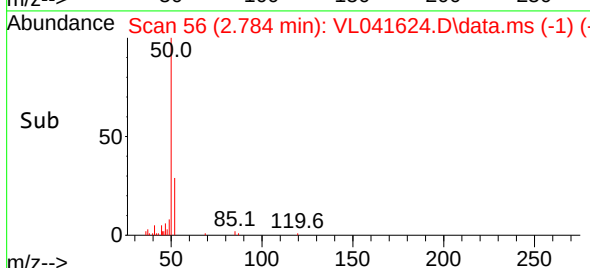
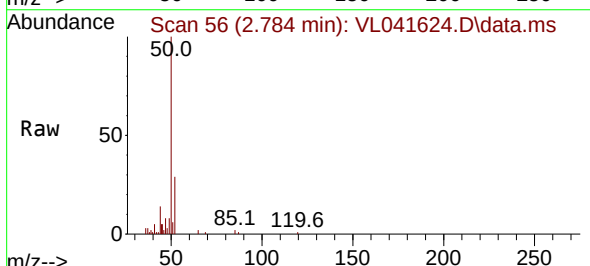
Manual Integrations
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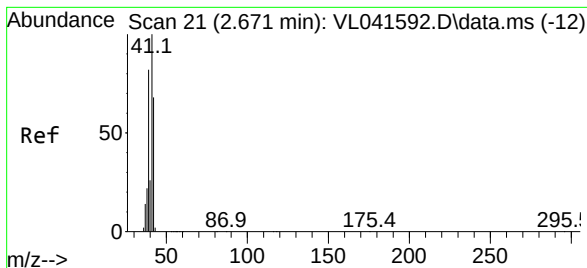
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#4
Chloromethane
Concen: 0.520 ppbv m
RT: 2.784 min Scan# 56
Delta R.T. -0.006 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

Tgt Ion: 50 Resp: 34196
Ion Ratio Lower Upper
50 100
52 29.3 25.4 38.2





#9

Propene

Concen: 1.531 ppbv

RT: 2.674 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041624.D

Acq: 25 Sep 2024 15:15

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 77138

Ion Ratio Lower Upper

41 100

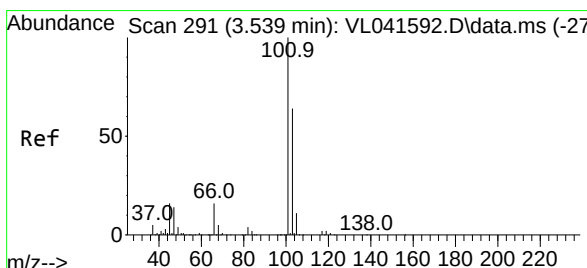
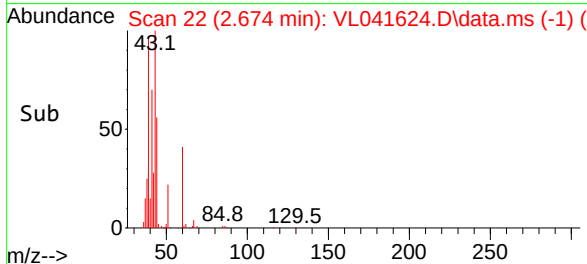
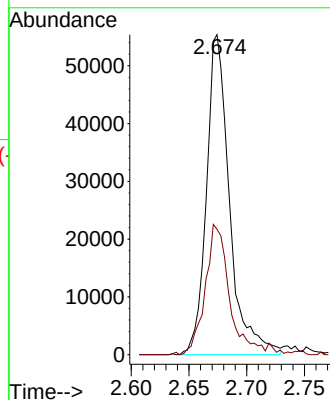
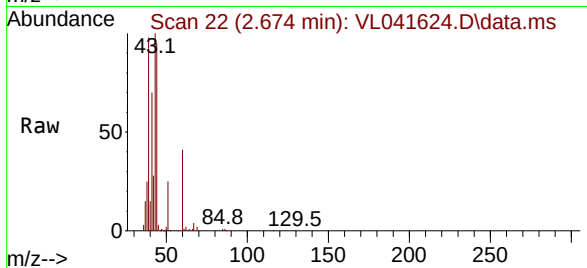
42 44.3 55.2 82.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/26/2024

Supervised By :Mahesh Dadoda 09/26/2024



#11

Trichlorofluoromethane

Concen: 0.218 ppbv

RT: 3.536 min Scan# 290

Delta R.T. -0.003 min

Lab File: VL041624.D

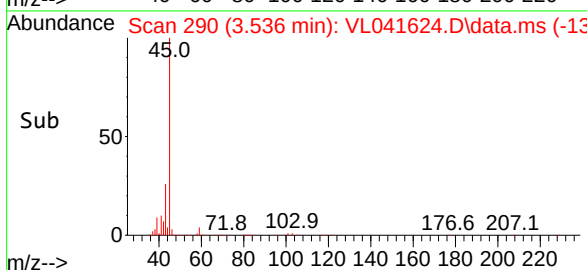
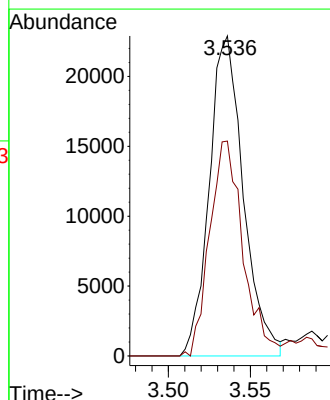
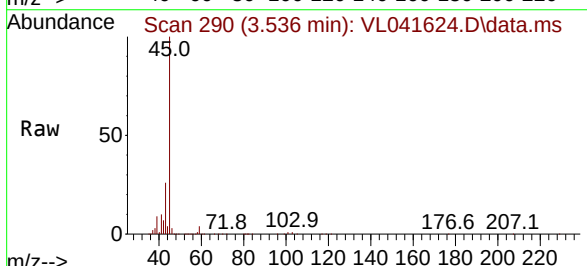
Acq: 25 Sep 2024 15:15

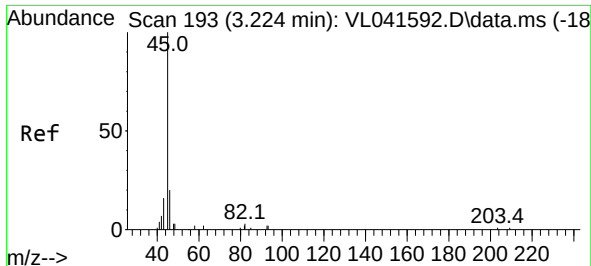
Tgt Ion:101 Resp: 33046

Ion Ratio Lower Upper

101 100

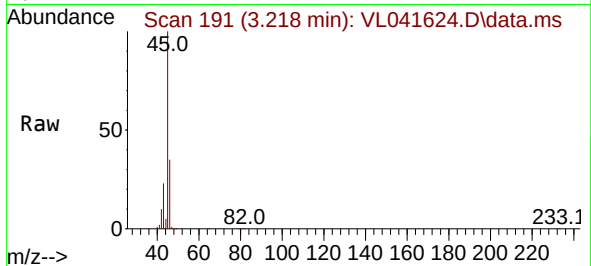
103 67.1 51.2 76.8





#13
Ethanol
Concen: 529.238 ppbv
RT: 3.218 min Scan# 193
Delta R.T. -0.006 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

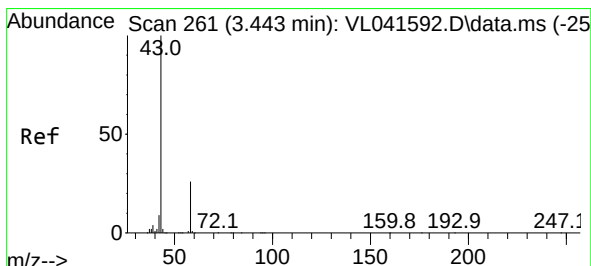
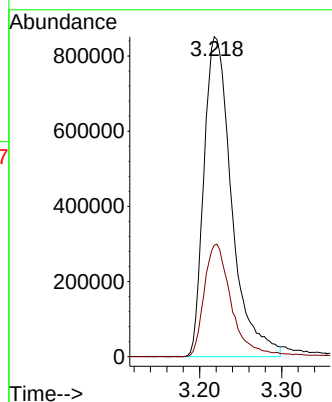
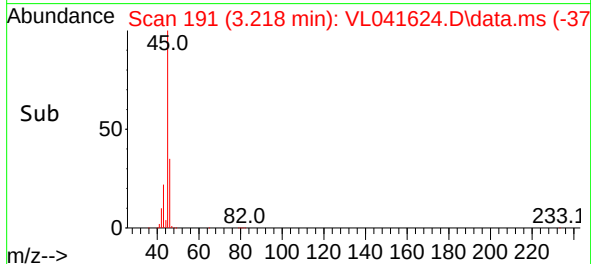
Instrument :
MSVOA_L
ClientSampleId :
IA1



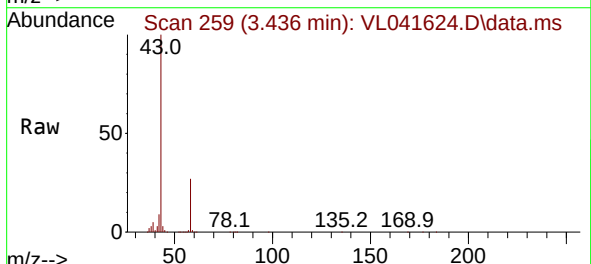
Tgt Ion: 45 Resp: 200492
Ion Ratio Lower Upper
45 100
46 35.3 15.2 60.8

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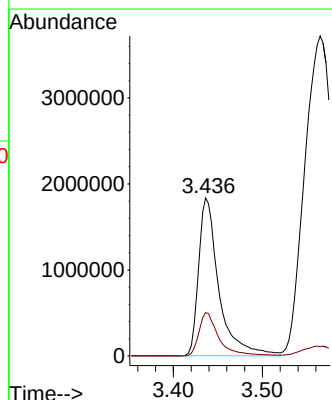
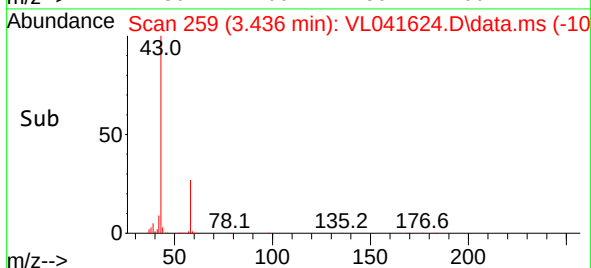
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024

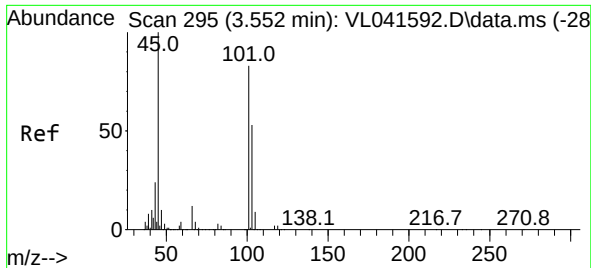


#15
Acetone
Concen: 23.497 ppbv
RT: 3.436 min Scan# 259
Delta R.T. -0.006 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15



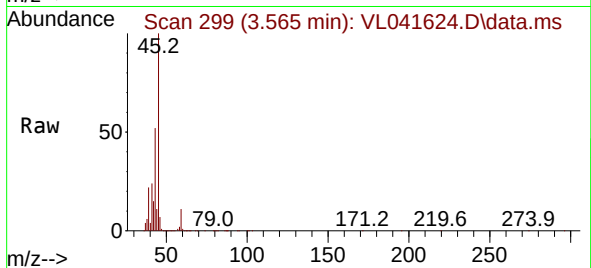
Tgt Ion: 43 Resp: 2905446
Ion Ratio Lower Upper
43 100
58 27.1 21.5 32.3





#19
Isopropyl Alcohol
Concen: 379.178 ppbv
RT: 3.565 min Scan# 295
Delta R.T. 0.013 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

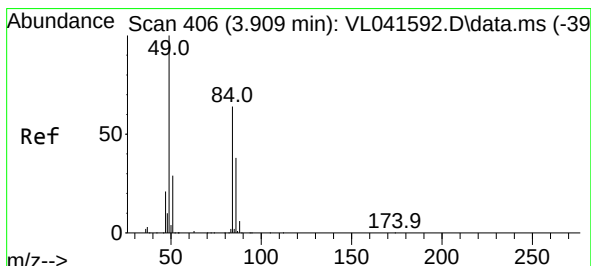
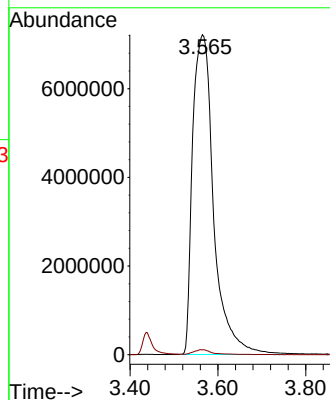
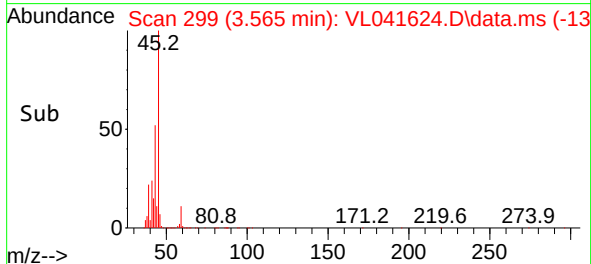
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 24001410
Ion Ratio Lower Upper
45 100
58 1.5 2.1 3.1

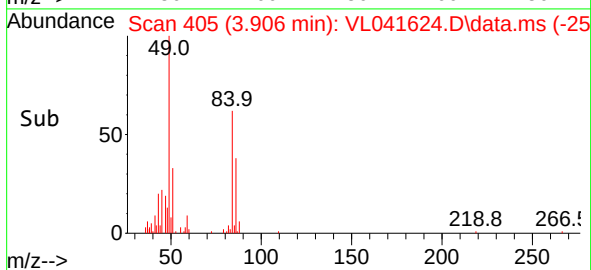
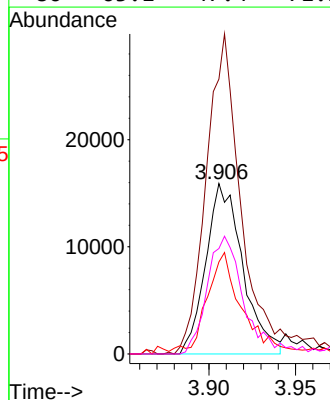
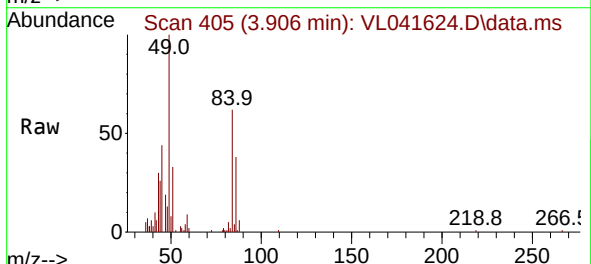
Manual Integrations
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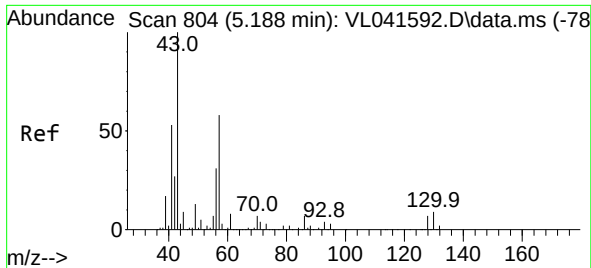
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#20
Methylene Chloride
Concen: 0.508 ppbv
RT: 3.906 min Scan# 405
Delta R.T. -0.003 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

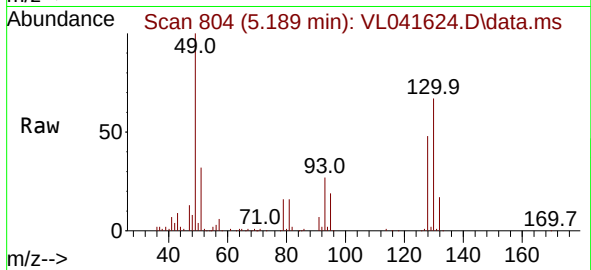
Tgt Ion: 84 Resp: 23593
Ion Ratio Lower Upper
84 100
49 157.4 124.3 186.5
51 49.6 36.3 54.5
86 63.1 47.4 71.2





#26
Hexane
Concen: 0.167 ppbv m
RT: 5.189 min Scan# 804
Delta R.T. 0.000 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

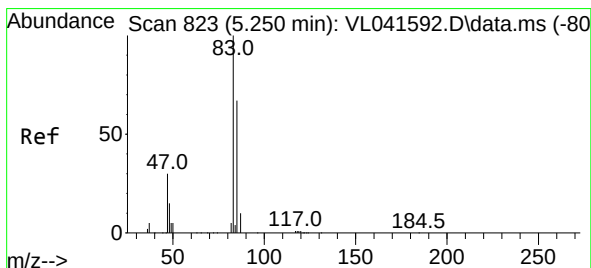
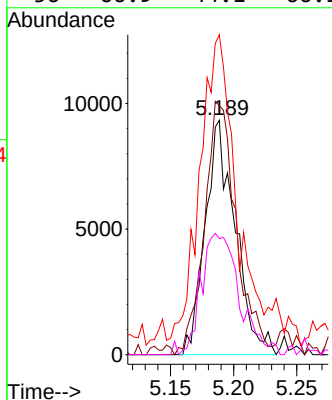
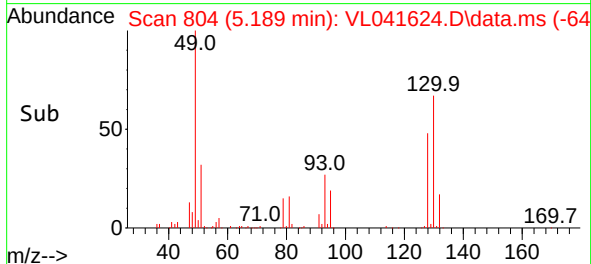
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 1542
Ion Ratio Lower Upper
57 100
41 114.6 75.7 113.5
43 161.9 198.5 297.7
56 66.9 44.1 66.1#

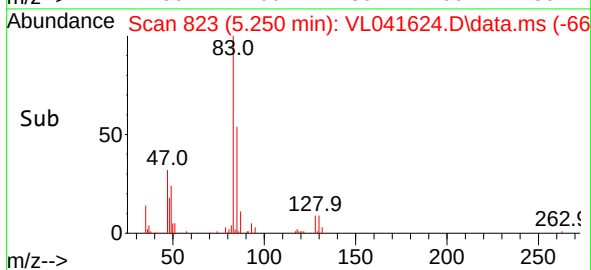
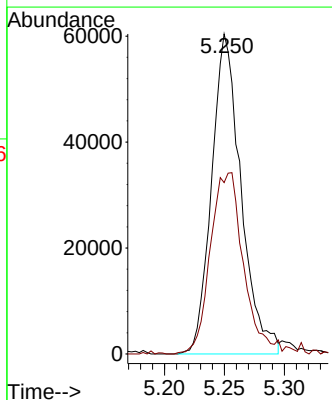
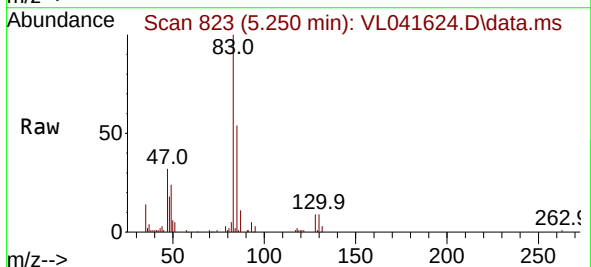
Manual Integrations
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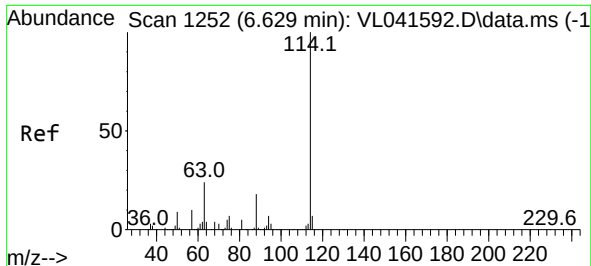
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#29
Chloroform
Concen: 0.679 ppbv
RT: 5.250 min Scan# 823
Delta R.T. 0.000 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

Tgt Ion: 83 Resp: 102851
Ion Ratio Lower Upper
83 100
85 53.1 53.8 80.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL041624.D

Acq: 25 Sep 2024 15:15

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 263046

Ion Ratio Lower Upper

114 100

63 25.1 20.2 30.2

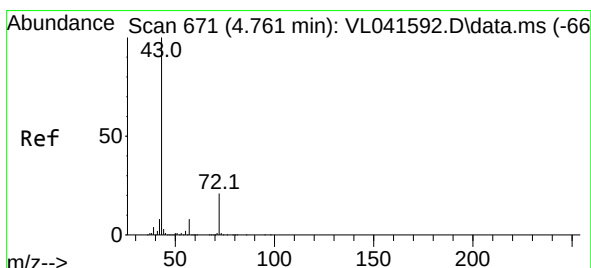
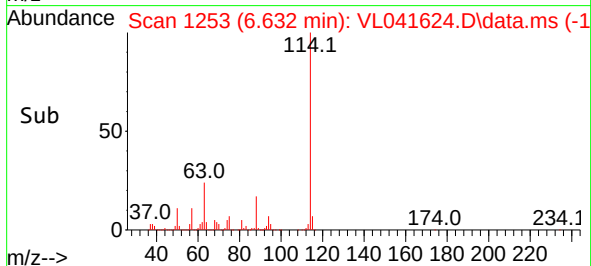
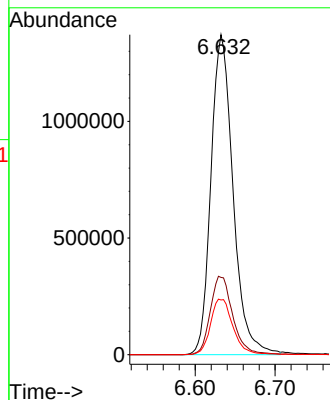
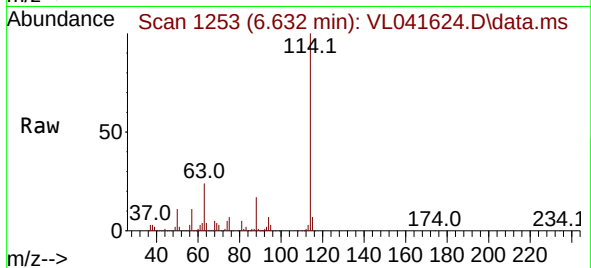
88 17.9 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/26/2024

Supervised By :Mahesh Dadoda 09/26/2024



#34

2-Butanone

Concen: 0.838 ppbv

RT: 4.767 min Scan# 673

Delta R.T. 0.007 min

Lab File: VL041624.D

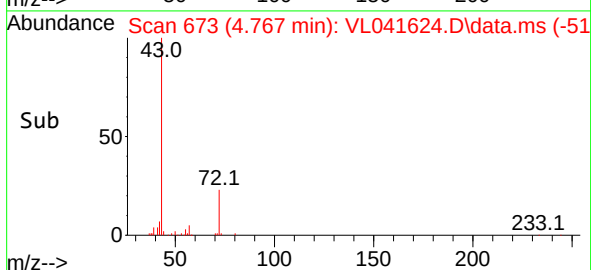
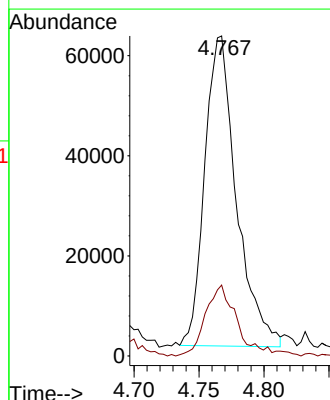
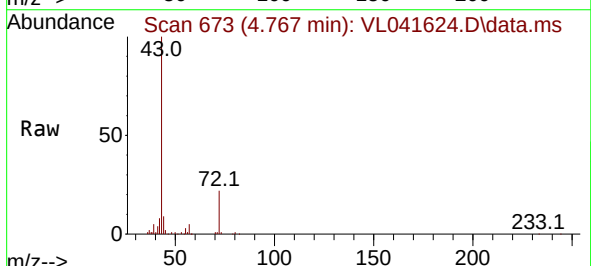
Acq: 25 Sep 2024 15:15

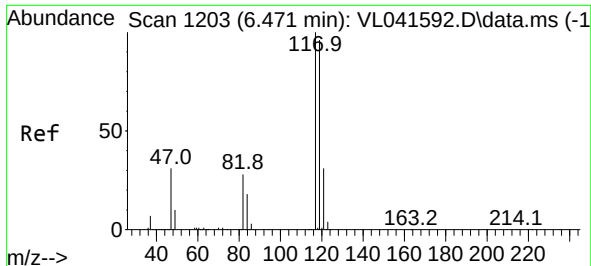
Tgt Ion: 43 Resp: 105134

Ion Ratio Lower Upper

43 100

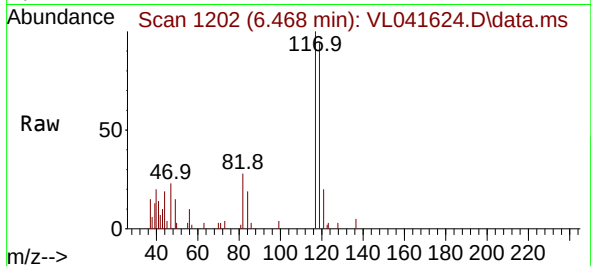
72 23.4 16.8 25.2





#35
Carbon Tetrachloride
Concen: 0.098 ppbv m
RT: 6.468 min Scan# 1170
Delta R.T. -0.003 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

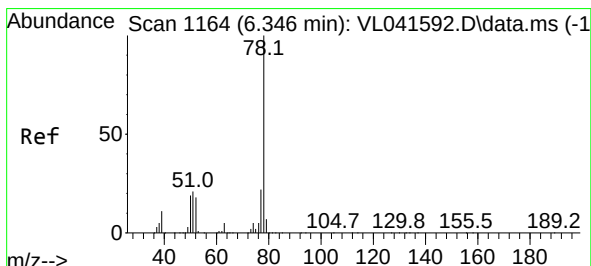
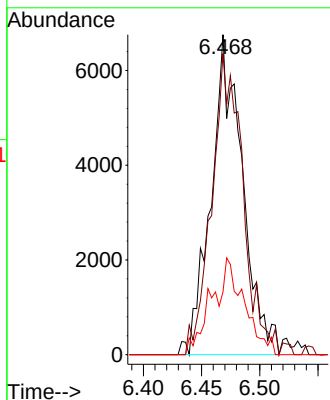
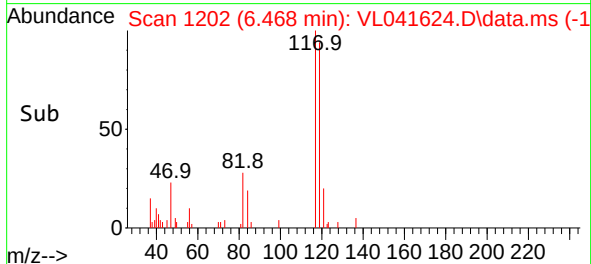
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 12700
Ion Ratio Lower Upper
117 100
119 94.2 76.8 115.2
121 19.7 25.0 37.6

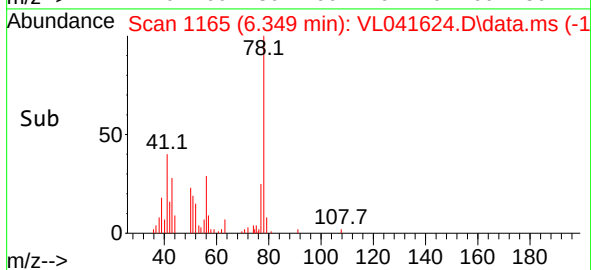
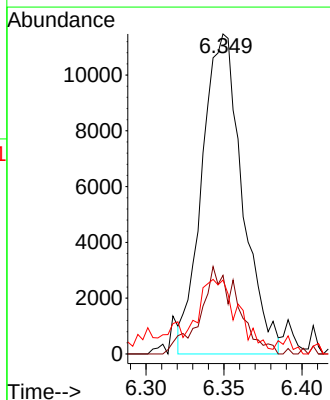
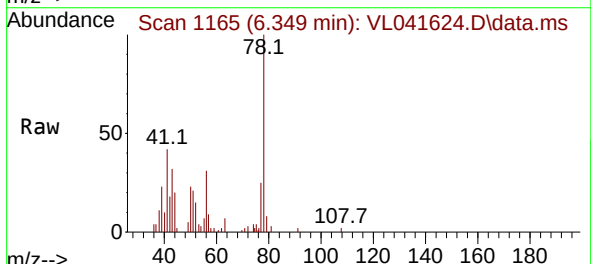
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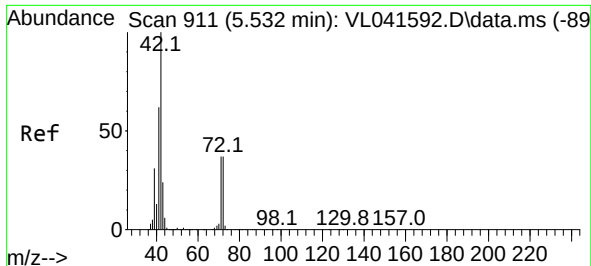
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#36
Benzene
Concen: 0.113 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

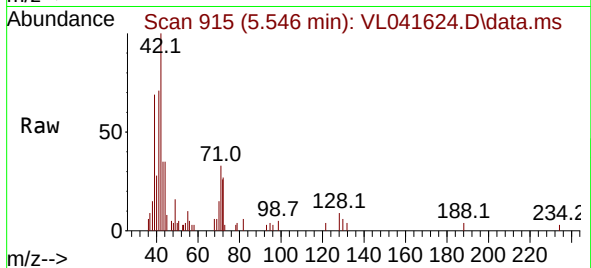
Tgt Ion: 78 Resp: 20609
Ion Ratio Lower Upper
78 100
77 25.8 17.8 26.6
50 20.0 15.4 23.0





#41
Tetrahydrofuran
Concen: 0.213 ppbv m
RT: 5.546 min Scan# 911
Delta R.T. 0.013 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

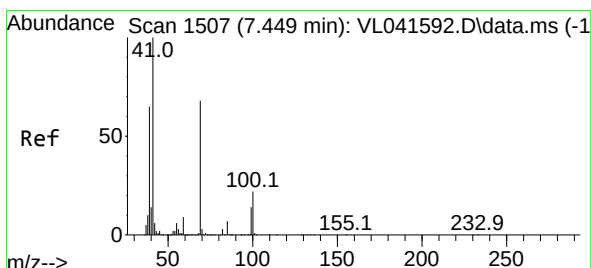
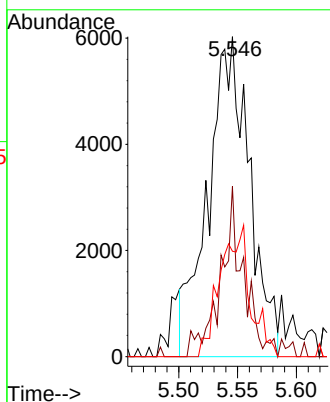
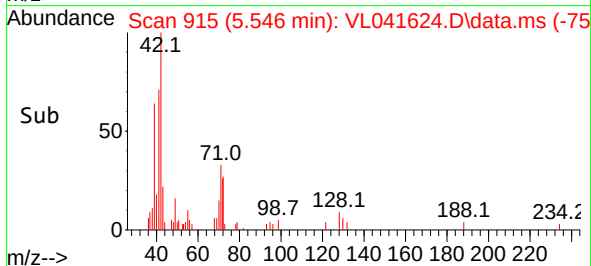
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 42 Resp: 14734
Ion Ratio Lower Upper
42 100
72 0.0 30.2 45.2#
71 0.0 29.6 44.4#

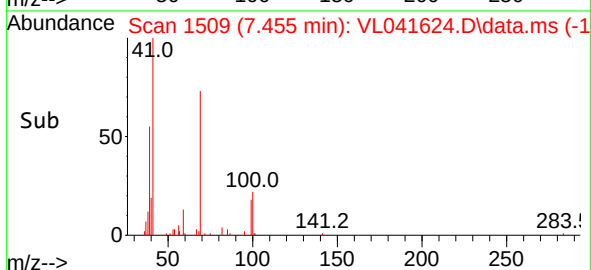
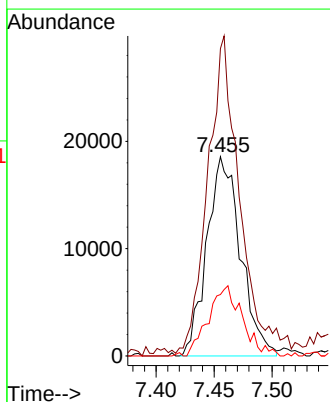
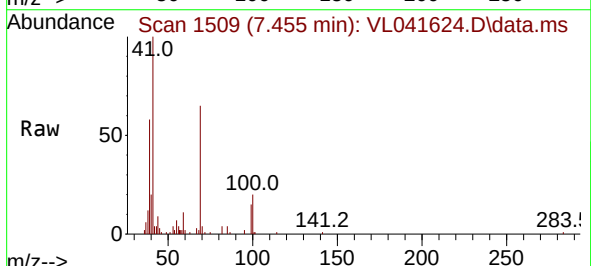
Manual Integrations
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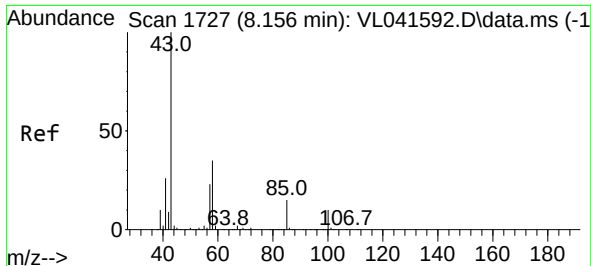
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#43
Methyl Methacrylate
Concen: 0.576 ppbv m
RT: 7.455 min Scan# 1509
Delta R.T. 0.007 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

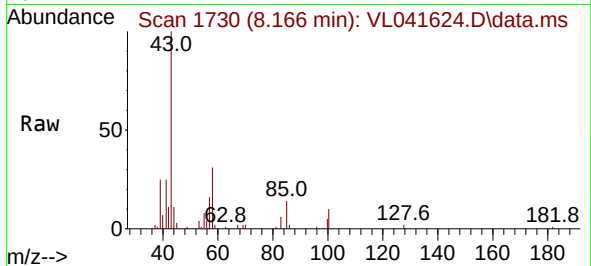
Tgt Ion: 69 Resp: 37627
Ion Ratio Lower Upper
69 100
41 0.0 121.8 182.6#
100 0.0 26.5 39.7#





#50
4-Methyl-2-Pentanone
Concen: 0.190 ppbv m
RT: 8.166 min Scan# 1727
Delta R.T. 0.010 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

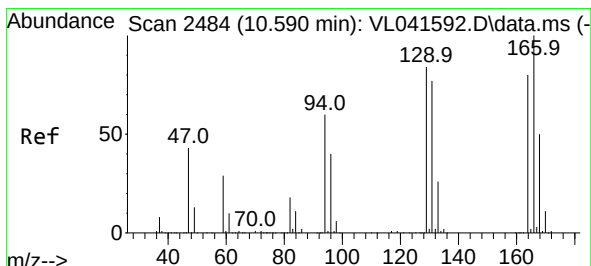
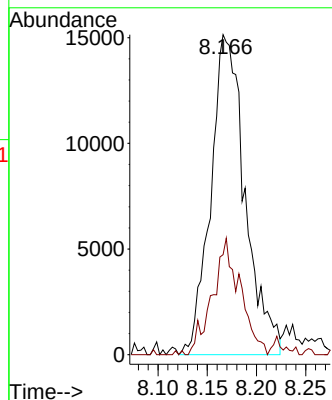
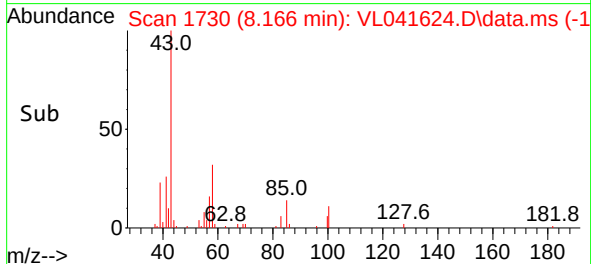
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 36790
Ion Ratio Lower Upper
43 100
58 29.5 27.8 41.8

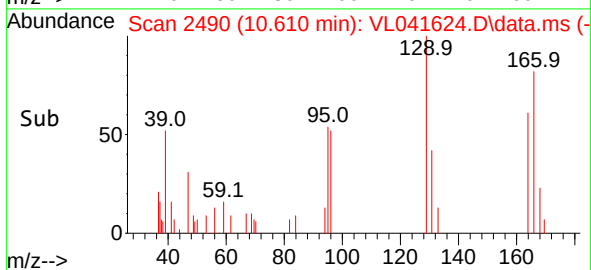
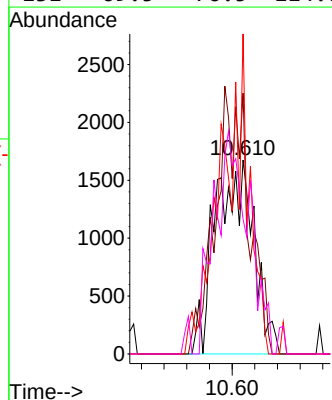
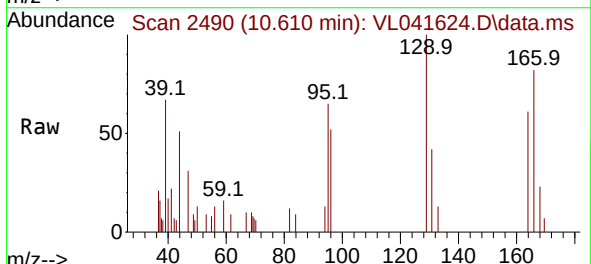
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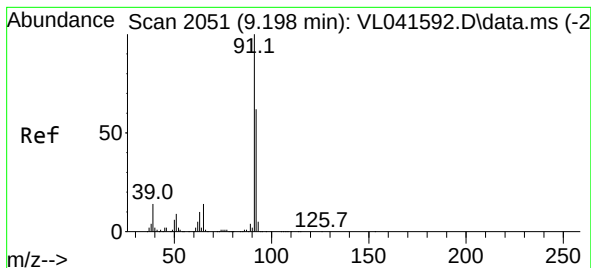
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#52
Tetrachloroethene
Concen: 0.060 ppbv m
RT: 10.610 min Scan# 2490
Delta R.T. 0.020 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

Tgt Ion:164 Resp: 3939
Ion Ratio Lower Upper
164 100
166 134.5 99.4 149.2
129 165.0 83.5 125.3#
131 69.5 76.5 114.7#





#53

Toluene

Concen: 0.219 ppbv

RT: 9.201 min Scan# 2051

Delta R.T. 0.003 min

Lab File: VL041624.D

Acq: 25 Sep 2024 15:15

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 42438

Ion Ratio Lower Upper

91 100

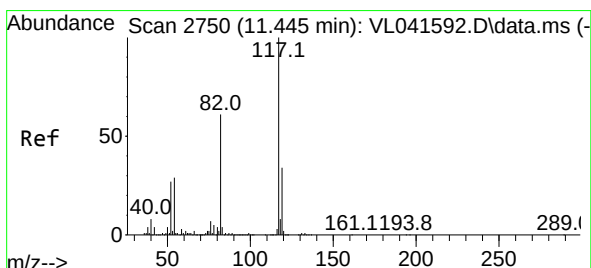
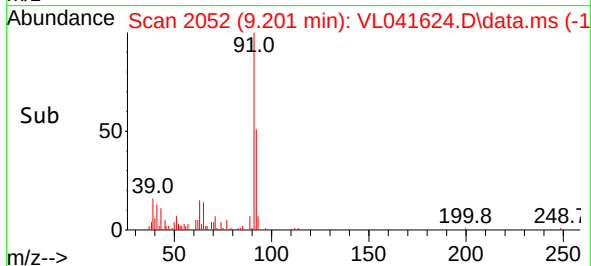
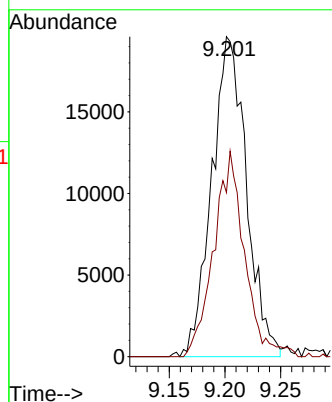
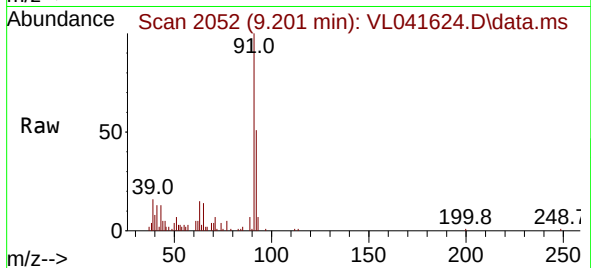
92 57.0 48.9 73.3

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Reviewed By :Semsettin Yesilyurt 09/26/2024

Supervised By :Mahesh Dadoda 09/26/2024



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.449 min Scan# 2751

Delta R.T. 0.003 min

Lab File: VL041624.D

Acq: 25 Sep 2024 15:15

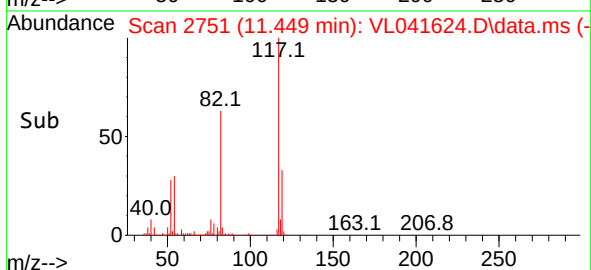
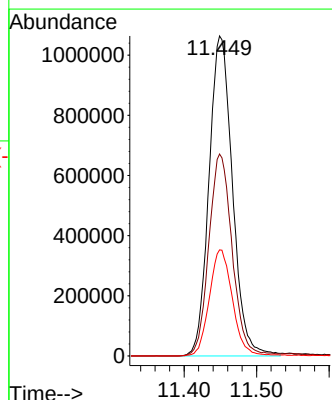
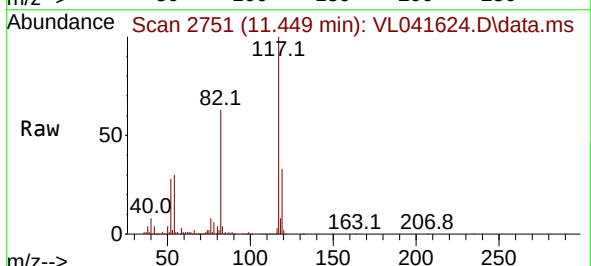
Tgt Ion:117 Resp: 2395289

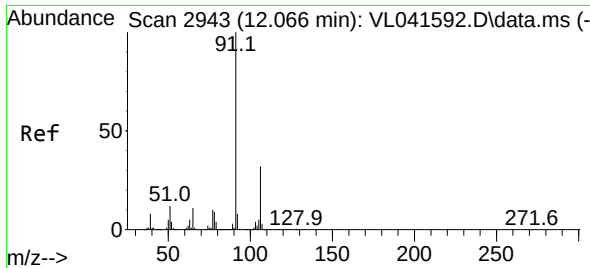
Ion Ratio Lower Upper

117 100

82 64.1 49.4 74.2

119 33.1 24.4 36.6





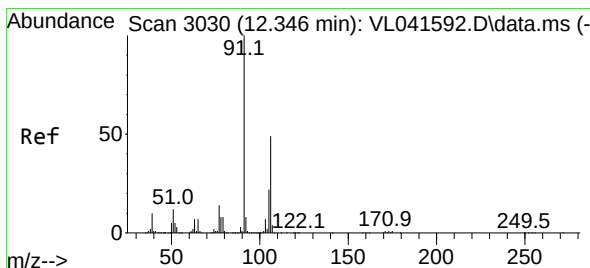
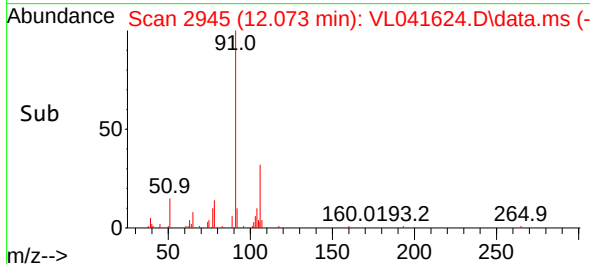
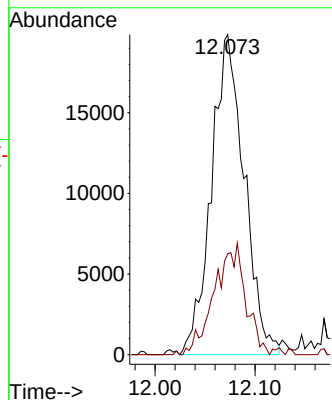
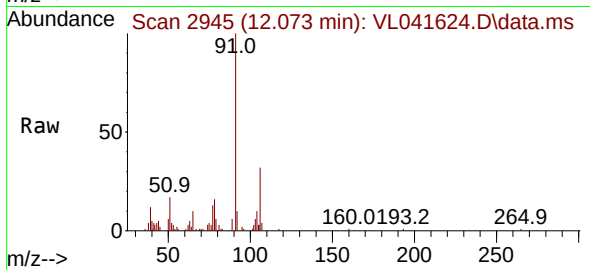
#58
Ethyl Benzene
Concen: 0.177 ppbv m
RT: 12.073 min Scan# 2943
Delta R.T. 0.007 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 4533
Ion Ratio Lower Upper
91 100
106 31.6 25.8 38.6

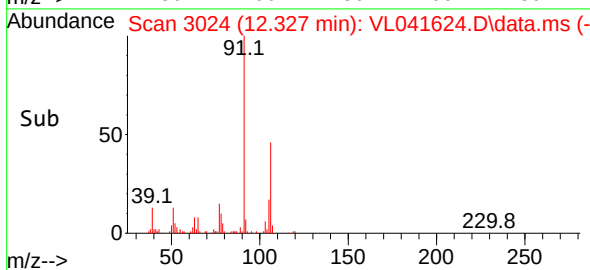
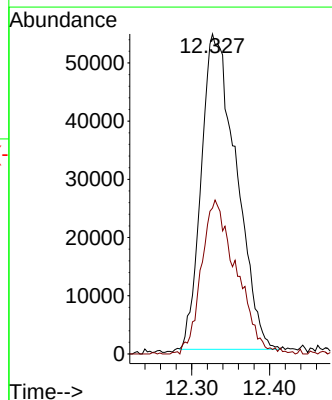
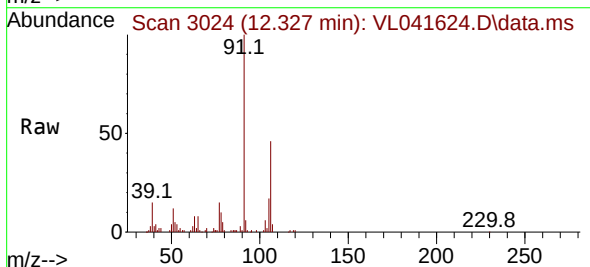
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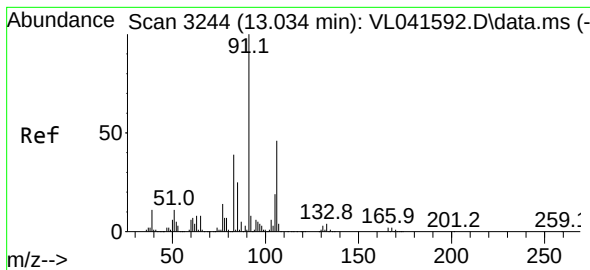
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#59
m/p-Xylene
Concen: 0.741 ppbv
RT: 12.327 min Scan# 3024
Delta R.T. -0.019 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

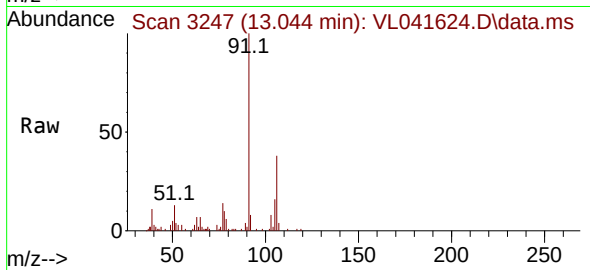
Tgt Ion: 91 Resp: 169121
Ion Ratio Lower Upper
91 100
106 49.2 36.8 55.2





#60
o-Xylene
Concen: 0.321 ppbv m
RT: 13.044 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

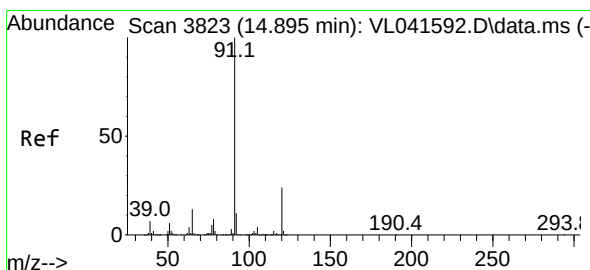
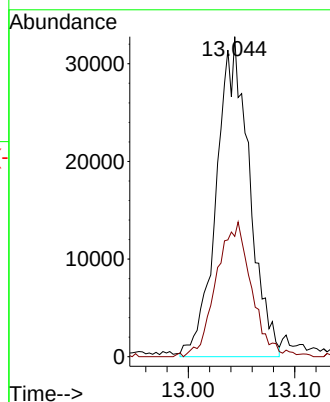
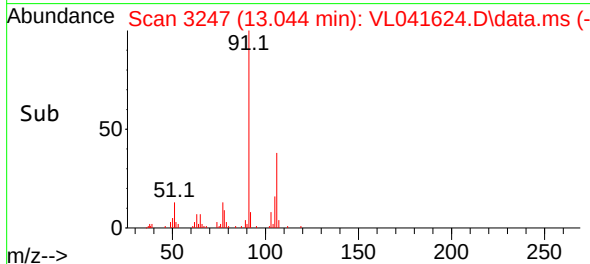
Instrument :
MSVOA_L
ClientSampleId :
IA1



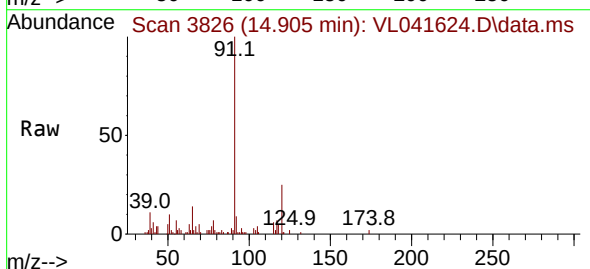
Tgt Ion: 91 Resp: 70252
Ion Ratio Lower Upper
91 100
106 0.0 23.1 69.3

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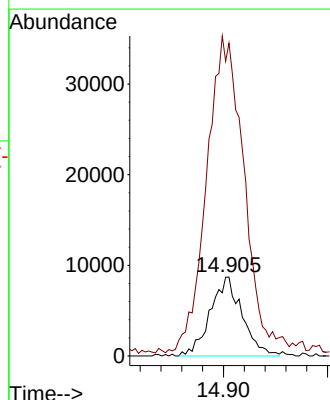
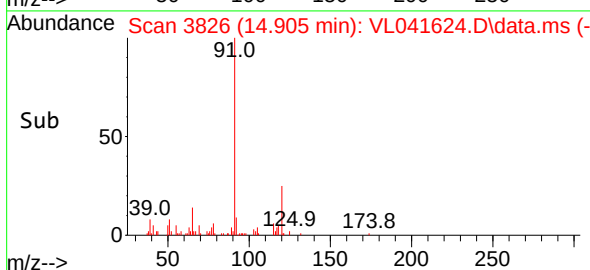
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024

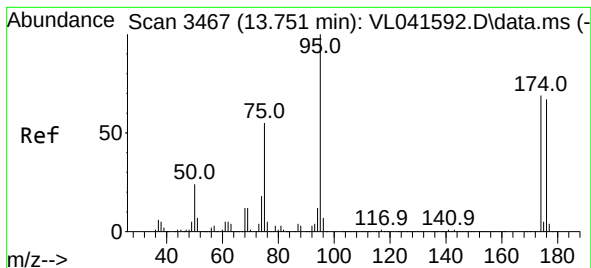


#64
n-propylbenzene
Concen: 0.216 ppbv m
RT: 14.905 min Scan# 3826
Delta R.T. 0.010 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15



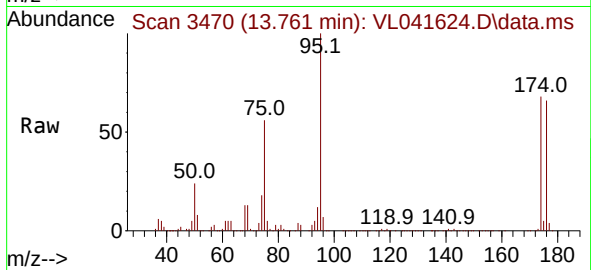
Tgt Ion:120 Resp: 18495
Ion Ratio Lower Upper
120 100
91 20.4 366.4 549.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.239 ppbv
RT: 13.761 min Scan# 3467
Delta R.T. 0.010 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

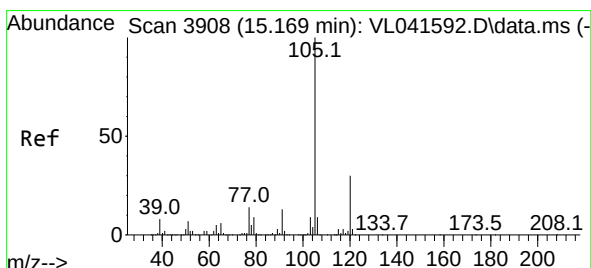
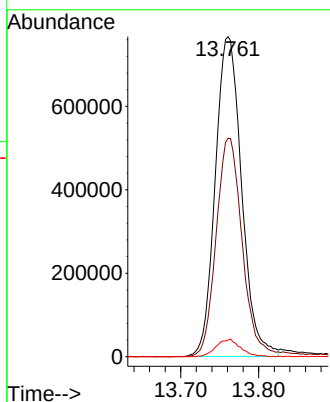
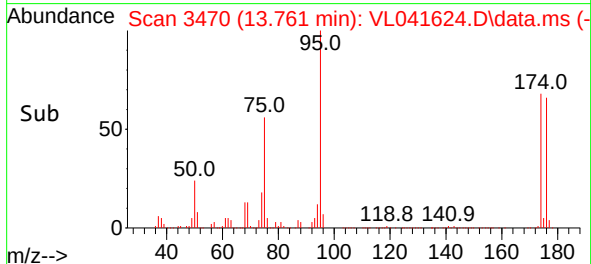
Instrument :
MSVOA_L
ClientSampleId :
IA1



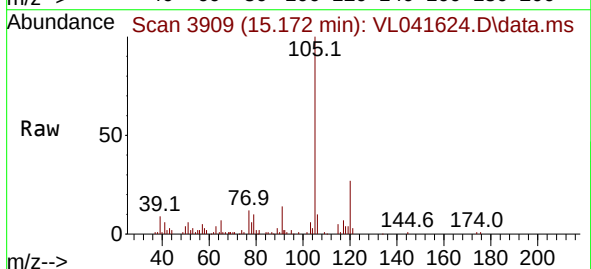
Tgt Ion: 95 Resp: 180538
Ion Ratio Lower Upper
95 100
174 69.6 55.8 83.8
175 5.1 4.1 6.1

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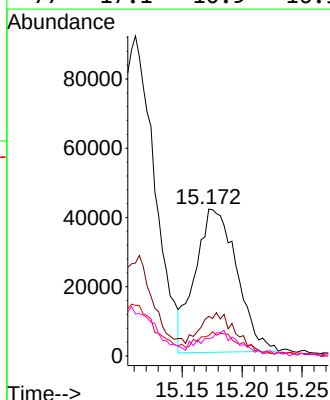
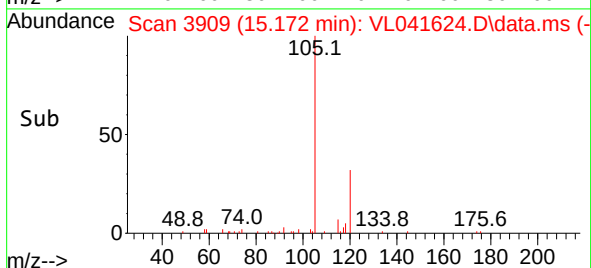
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024

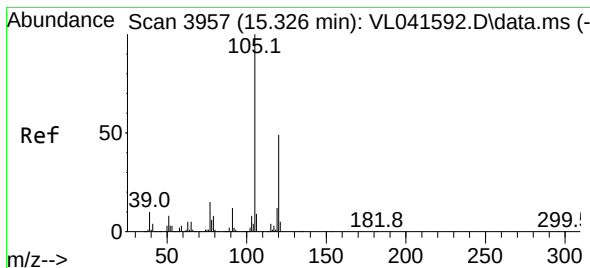


#72
4-Ethyltoluene
Concen: 0.392 ppbv
RT: 15.172 min Scan# 3909
Delta R.T. 0.003 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15



Tgt Ion:105 Resp: 100202
Ion Ratio Lower Upper
105 100
120 30.7 24.1 36.1
91 16.1 10.2 15.2#
77 17.1 10.9 16.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.378 ppbv m

RT: 15.343 min Scan# 3957

Delta R.T. 0.016 min

Lab File: VL041624.D

Acq: 25 Sep 2024 15:15

Instrument :

MSVOA_L

ClientSampleId :

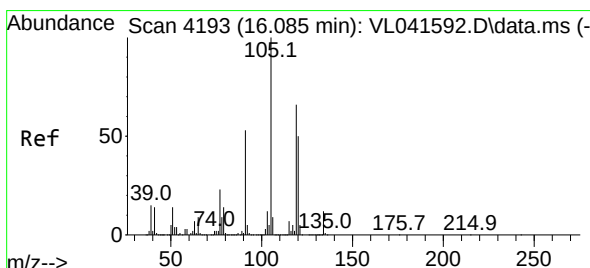
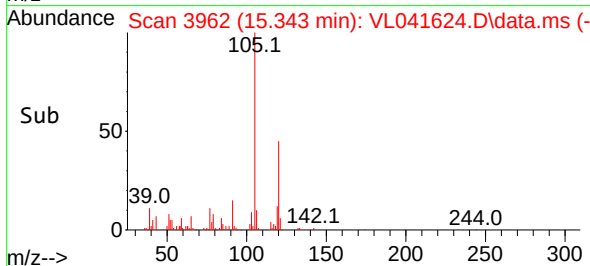
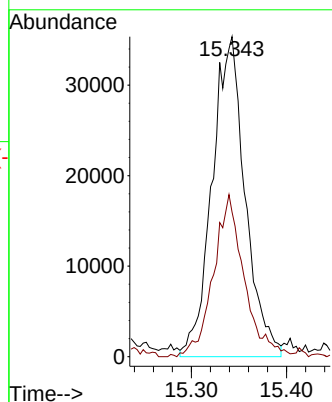
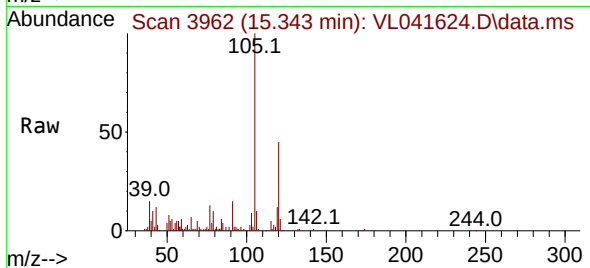
IA1

Tgt Ion:105 Resp: 85410
 Ion Ratio Lower Upper
 105 100
 120 45.2 39.4 59.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/26/2024
 Supervised By :Mahesh Dadoda 09/26/2024



#74

1,2,4-Trimethylbenzene

Concen: 0.960 ppbv

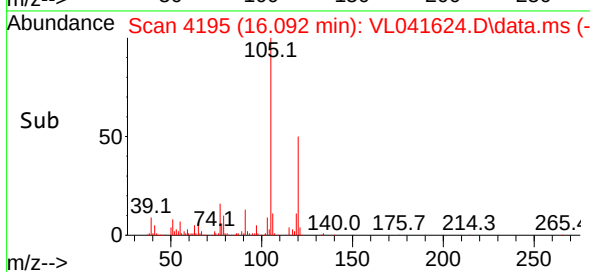
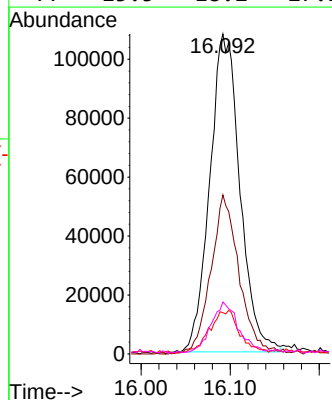
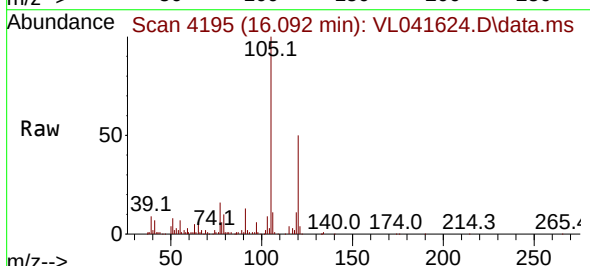
RT: 16.092 min Scan# 4195

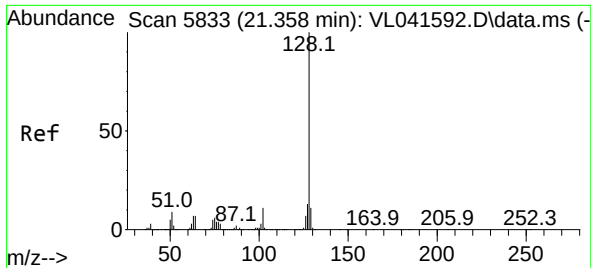
Delta R.T. 0.007 min

Lab File: VL041624.D

Acq: 25 Sep 2024 15:15

Tgt Ion:105 Resp: 253845
 Ion Ratio Lower Upper
 105 100
 120 49.6 39.9 59.9
 91 12.4 42.6 63.8#
 77 15.5 18.2 27.2#





#79
Naphthalene
Concen: 0.190 ppbv m
RT: 21.381 min Scan# 5840
Delta R.T. 0.023 min
Lab File: VL041624.D
Acq: 25 Sep 2024 15:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:128 Resp: 3696
Ion Ratio Lower Upper
128 100
127 14.1 10.1 15.1
129 8.4 9.1 13.7

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024

