

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
 Data File : VL041625.D
 Acq On : 25 Sep 2024 15:56
 Operator : SY/MD
 Sample : P4174-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

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

Quant Time: Sep 26 01:20:47 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	1002961	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	2628694	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2384486	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1760911	10.032	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.703	85	28824	0.199	ppbv	93
3) Chlorodifluoromethane	2.645	51	421190	3.462	ppbv	97
4) Chloromethane	2.783	50	34554	0.516	ppbv	94
9) Propene	2.677	41	67655	1.318	ppbv #	69
11) Trichlorofluoromethane	3.536	101	35178	0.228	ppbv	96
13) Ethanol	3.221	45	2176589	564.216	ppbv	95
15) Acetone	3.439	43	3009355	23.900	ppbv	99
19) Isopropyl Alcohol	3.568	45	24683798	382.942	ppbv #	96
20) Methylene Chloride	3.909	84	27300	0.577	ppbv	93
26) Hexane	5.188	57	19755	0.210	ppbv #	57
29) Chloroform	5.256	83	103802m	0.673	ppbv	
34) 2-Butanone	4.767	43	119527	0.954	ppbv	96
35) Carbon Tetrachloride	6.468	117	12240m	0.095	ppbv	
36) Benzene	6.349	78	22133	0.121	ppbv #	83
41) Tetrahydrofuran	5.545	42	17626m	0.256	ppbv	
43) Methyl Methacrylate	7.462	69	40663	0.622	ppbv	90
50) 4-Methyl-2-Pentanone	8.172	43	39299	0.203	ppbv	97
52) Tetrachloroethene	10.603	164	3933m	0.059	ppbv	
53) Toluene	9.204	91	49259	0.254	ppbv	95
58) Ethyl Benzene	12.072	91	51715m	0.203	ppbv	
59) m/p-Xylene	12.333	91	179699	0.791	ppbv	96
60) o-Xylene	13.043	91	75611m	0.347	ppbv	
64) n-propylbenzene	14.902	120	18779m	0.220	ppbv	
72) 4-Ethyltoluene	15.178	105	97900	0.385	ppbv #	91
73) 1,3,5-Trimethylbenzene	15.336	105	87114m	0.387	ppbv	
74) 1,2,4-Trimethylbenzene	16.091	105	268986	1.022	ppbv #	70
79) Naphthalene	21.374	128	38487m	0.199	ppbv	

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

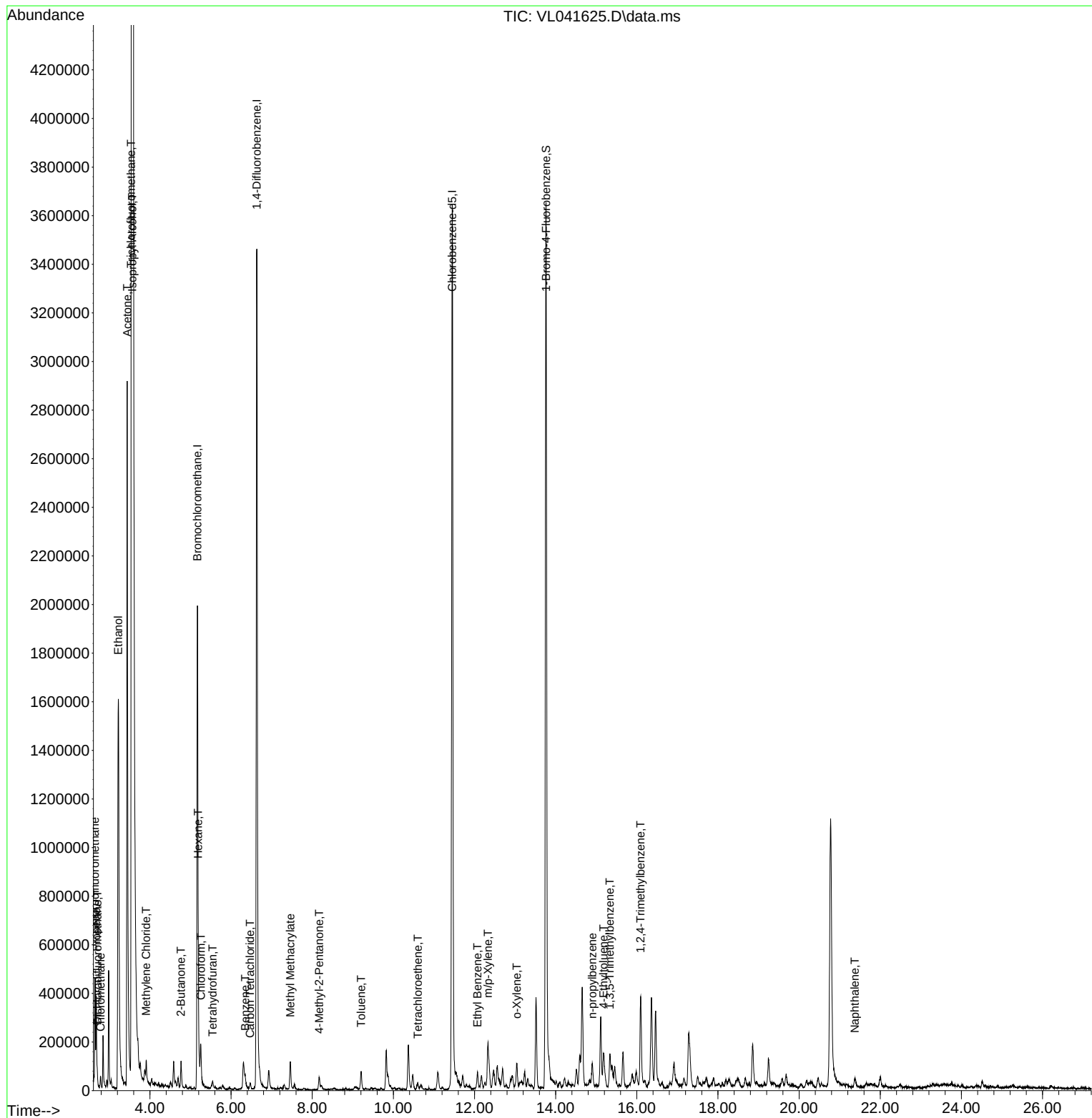
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
Data File : VL041625.D
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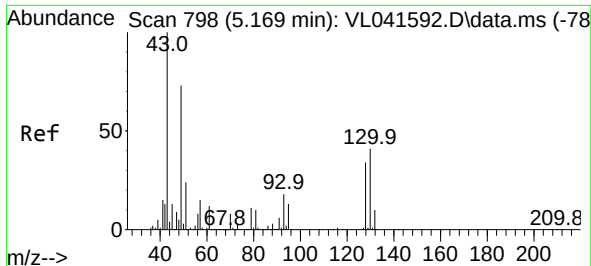
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Sep 26 01:20:47 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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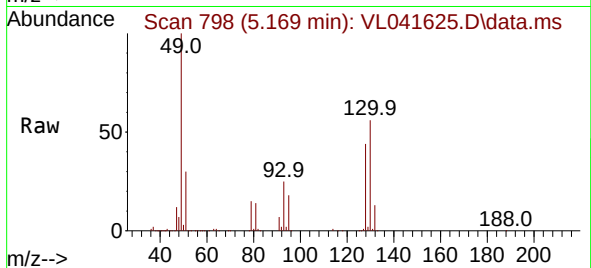
Reviewed By : Semsettin Yesilyurt 09/26/2024
Supervised By : Mahesh Dadoda 09/26/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 798
Delta R.T. -0.000 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

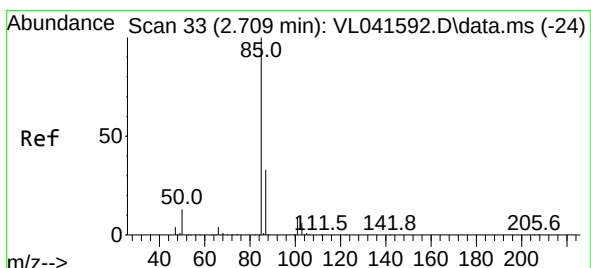
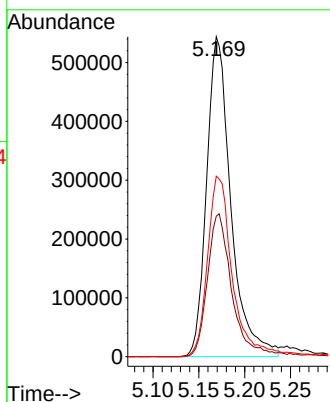
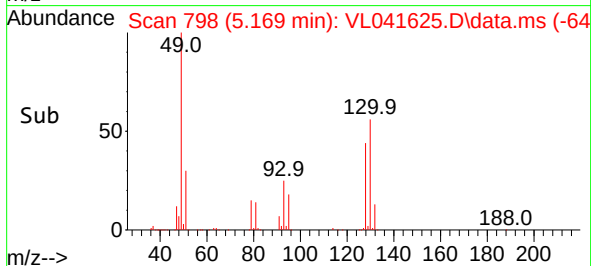
Instrument : MSVOA_L
ClientSampleId : IA1DUP



Tgt Ion: 49 Resp: 100296
Ion Ratio Lower Upper
49 100
128 46.1 23.8 71.5
130 59.3 30.4 91.3

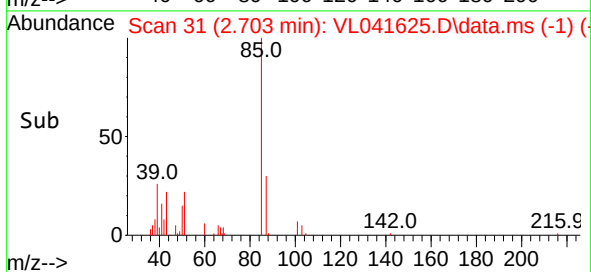
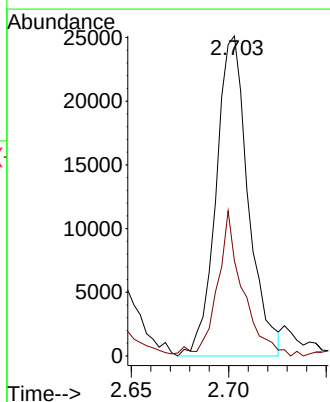
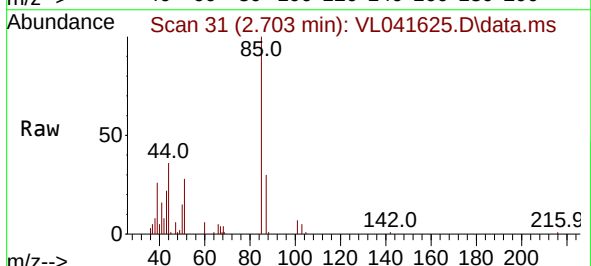
Manual Integrations
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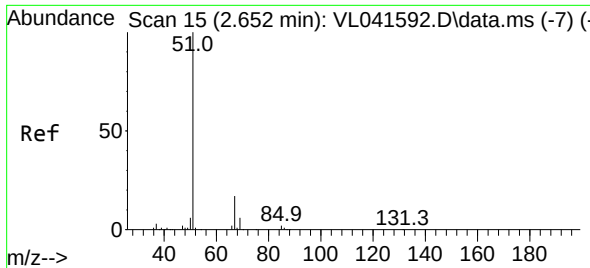
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#2
Dichlorodifluoromethane
Concen: 0.199 ppbv
RT: 2.703 min Scan# 31
Delta R.T. -0.007 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

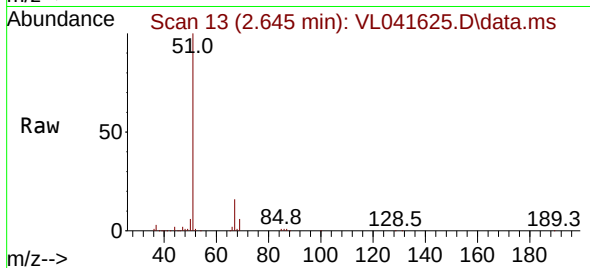
Tgt Ion: 85 Resp: 28824
Ion Ratio Lower Upper
85 100
87 28.9 26.3 39.5





#3
Chlorodifluoromethane
Concen: 3.462 ppbv
RT: 2.645 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

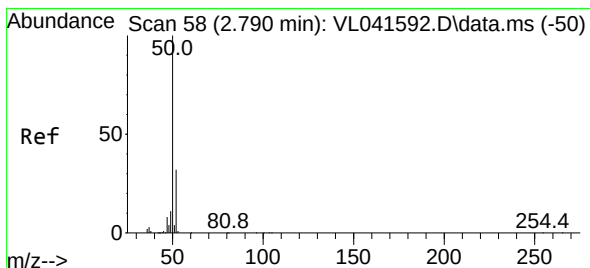
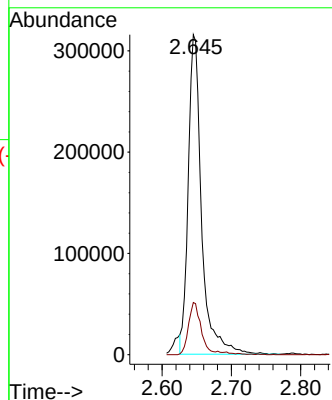
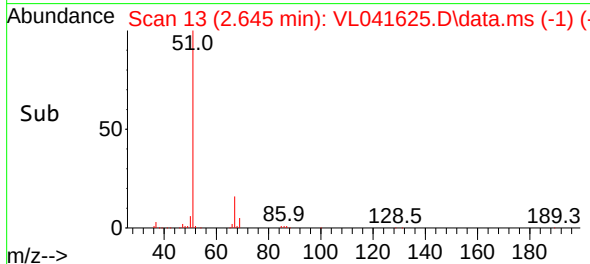
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 51 Resp: 421190
Ion Ratio Lower Upper
51 100
67 16.4 14.1 21.1

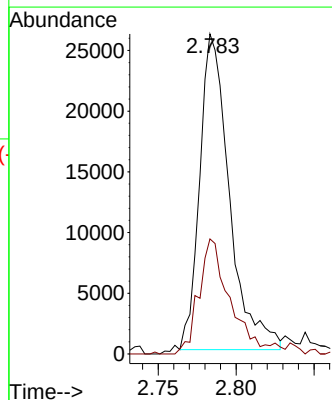
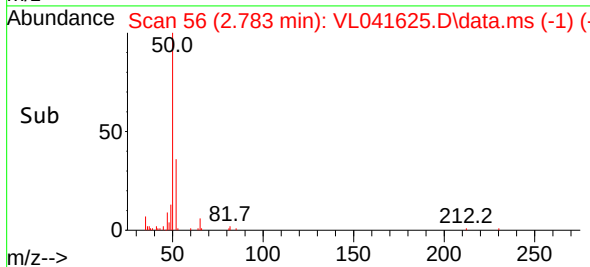
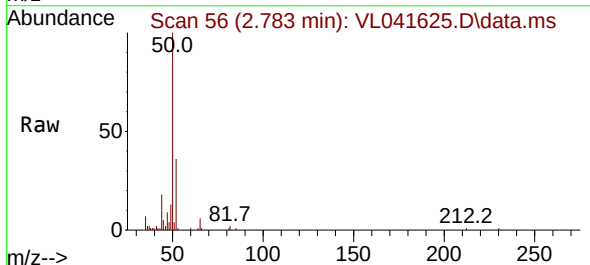
Manual Integrations
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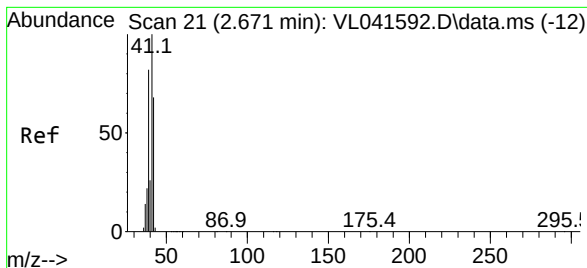
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#4
Chloromethane
Concen: 0.516 ppbv
RT: 2.783 min Scan# 56
Delta R.T. -0.007 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Tgt Ion: 50 Resp: 34554
Ion Ratio Lower Upper
50 100
52 34.9 25.4 38.2





#9

Propene

Concen: 1.318 ppbv

RT: 2.677 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL041625.D

Acq: 25 Sep 2024 15:56

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 41 Resp: 6765

Ion Ratio Lower Upper

41 100

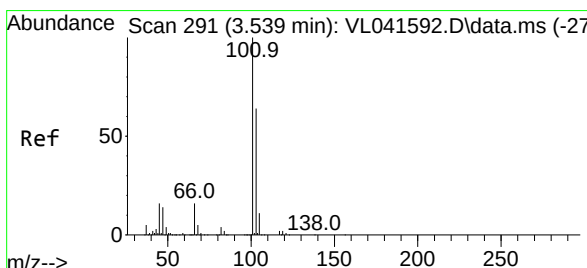
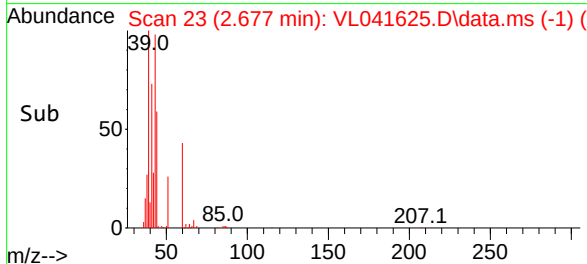
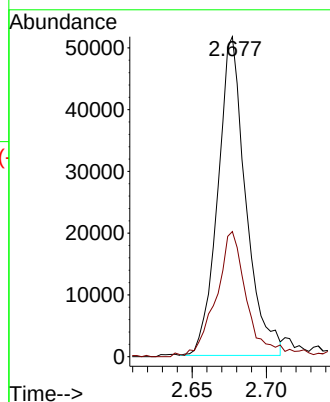
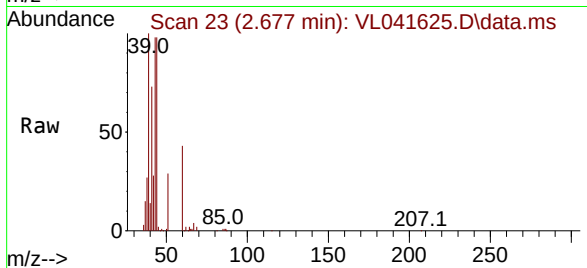
42 44.0 55.2 82.8

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Reviewed By :Semsettin Yesilyurt 09/26/2024

Supervised By :Mahesh Dadoda 09/26/2024



#11

Trichlorofluoromethane

Concen: 0.228 ppbv

RT: 3.536 min Scan# 290

Delta R.T. -0.003 min

Lab File: VL041625.D

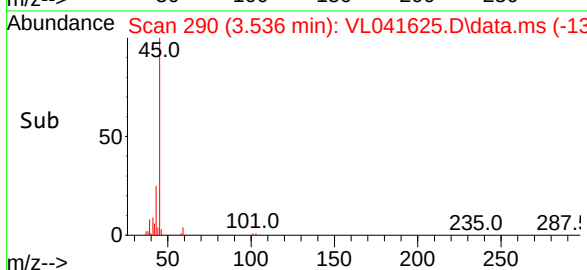
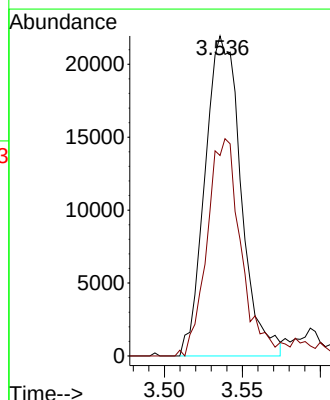
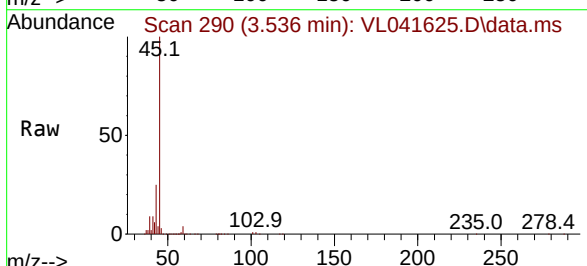
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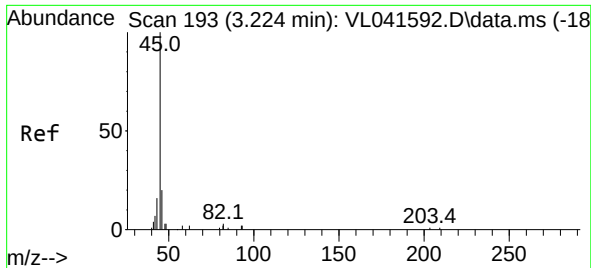
Tgt Ion:101 Resp: 35178

Ion Ratio Lower Upper

101 100

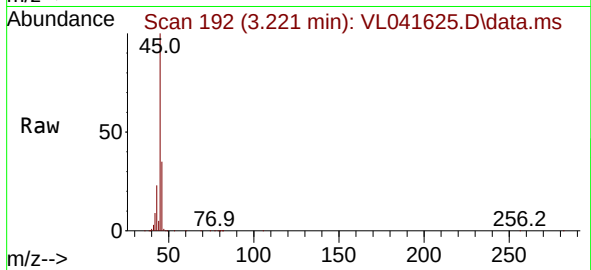
103 60.9 51.2 76.8





#13
 Ethanol
 Concen: 564.216 ppbv
 RT: 3.221 min Scan# 19
 Delta R.T. -0.003 min
 Lab File: VL041625.D
 Acq: 25 Sep 2024 15:56

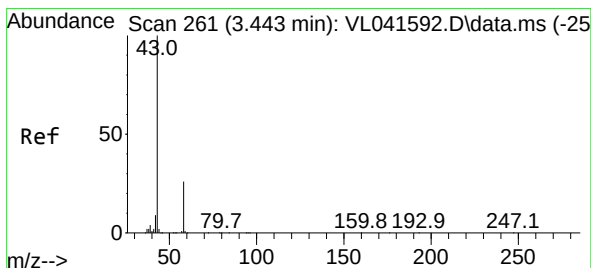
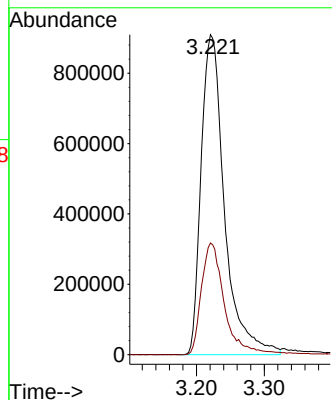
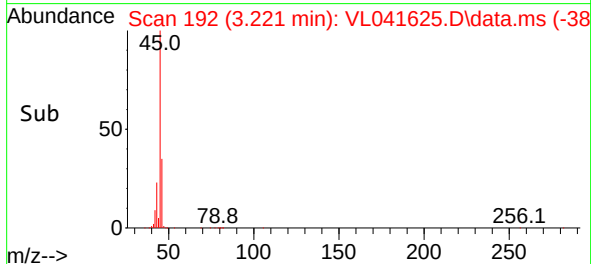
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



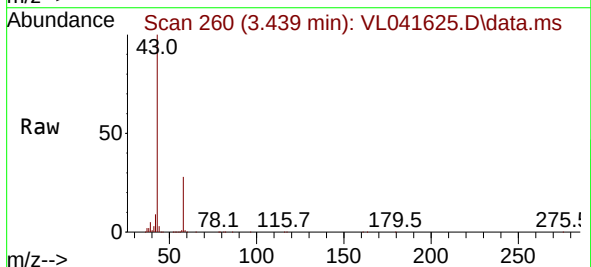
Tgt Ion: 45 Resp: 2176589
 Ion Ratio Lower Upper
 45 100
 46 35.0 15.2 60.8

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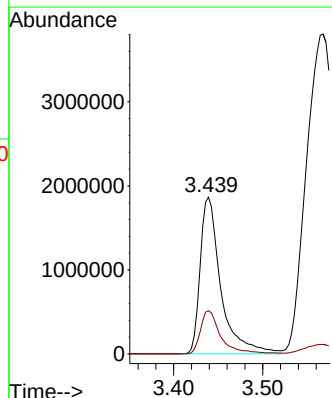
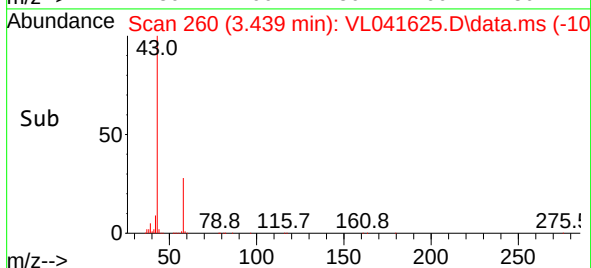
Reviewed By :Semsettin Yesilyurt 09/26/2024
 Supervised By :Mahesh Dadoda 09/26/2024

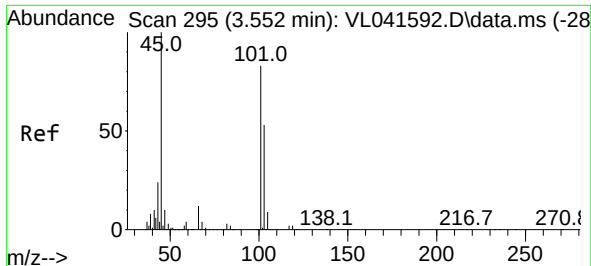


#15
 Acetone
 Concen: 23.900 ppbv
 RT: 3.439 min Scan# 260
 Delta R.T. -0.003 min
 Lab File: VL041625.D
 Acq: 25 Sep 2024 15:56



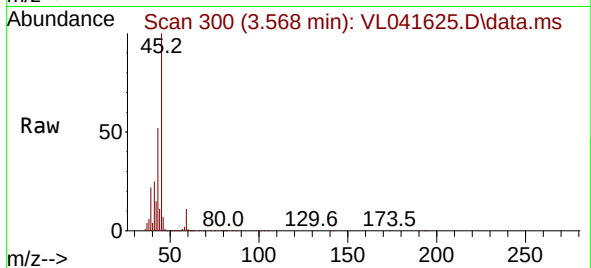
Tgt Ion: 43 Resp: 3009355
 Ion Ratio Lower Upper
 43 100
 58 27.3 21.5 32.3





#19
Isopropyl Alcohol
Concen: 382.942 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.016 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

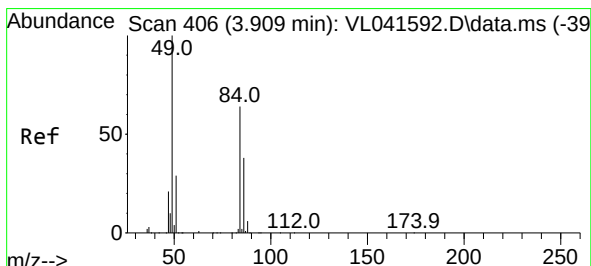
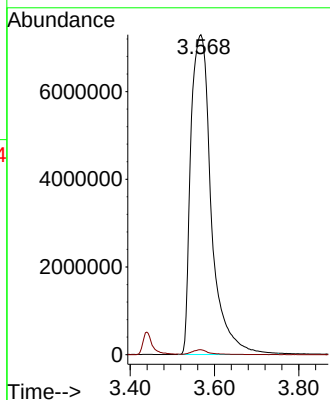
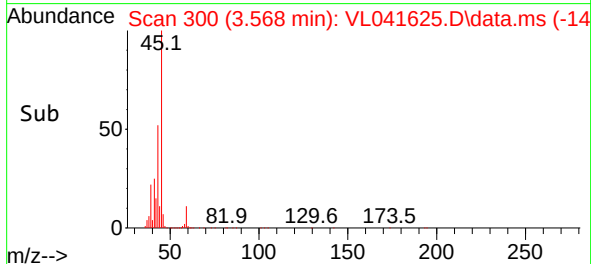
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 45 Resp: 24683798
Ion Ratio Lower Upper
45 100
58 1.4 2.1 3.1

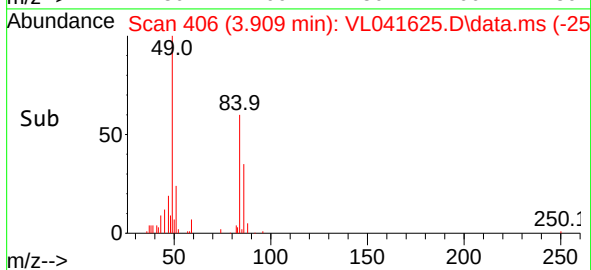
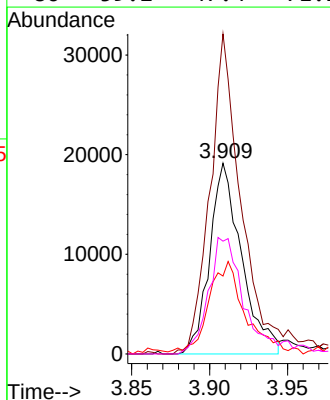
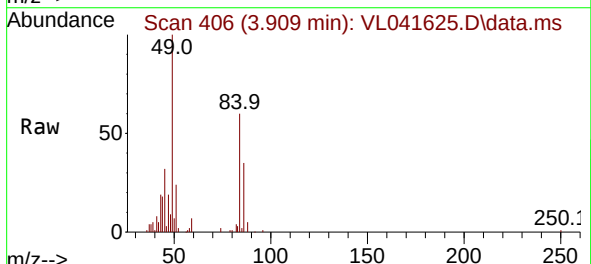
Manual Integrations
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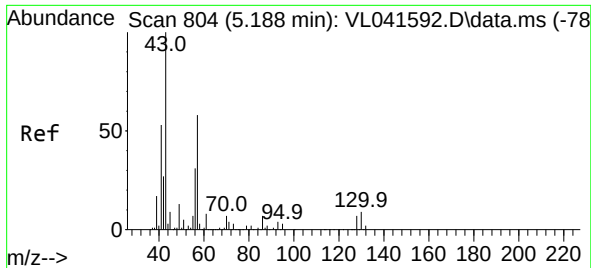
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#20
Methylene Chloride
Concen: 0.577 ppbv
RT: 3.909 min Scan# 406
Delta R.T. -0.000 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

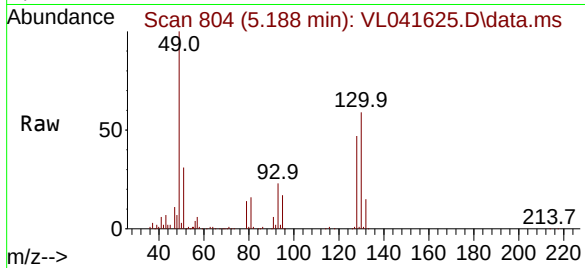
Tgt Ion: 84 Resp: 27300
Ion Ratio Lower Upper
84 100
49 165.6 124.3 186.5
51 37.8 36.3 54.5
86 59.2 47.4 71.2





#26
Hexane
Concen: 0.210 ppbv
RT: 5.188 min Scan# 804
Delta R.T. -0.000 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

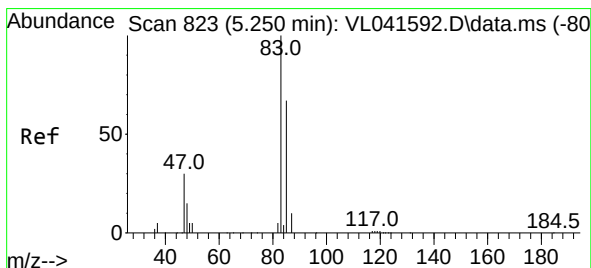
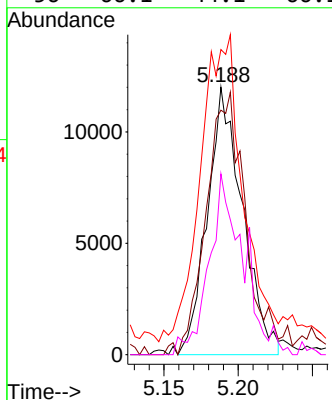
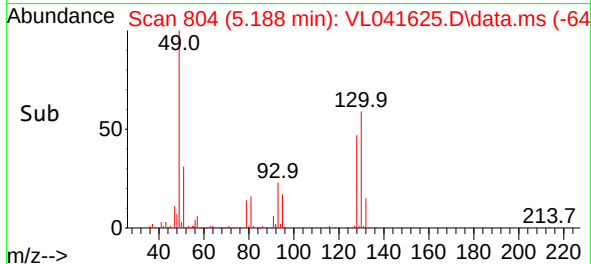
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 57 Resp: 1975
Ion Ratio Lower Upper
57 100
41 112.0 75.7 113.5
43 146.0 198.5 297.7
56 66.1 44.1 66.1

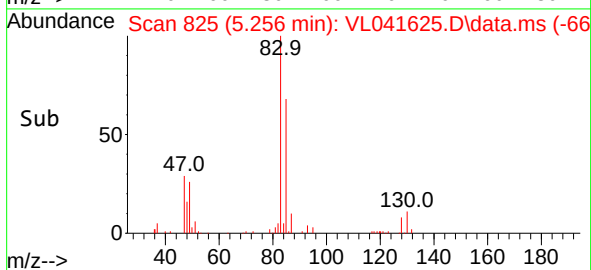
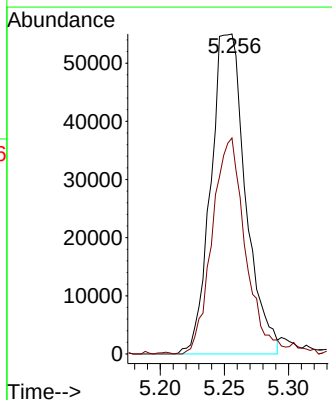
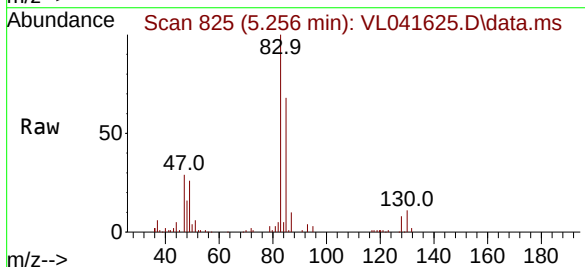
Manual Integrations
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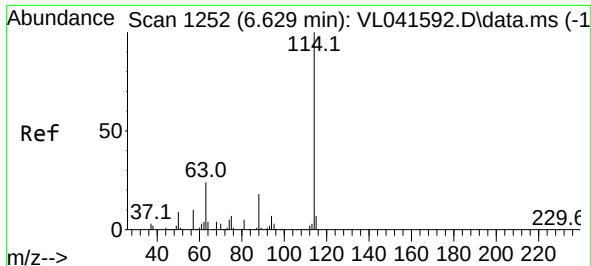
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#29
Chloroform
Concen: 0.673 ppbv m
RT: 5.256 min Scan# 825
Delta R.T. 0.006 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Tgt Ion: 83 Resp: 103802
Ion Ratio Lower Upper
83 100
85 67.5 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: VL041625.D

Acq: 25 Sep 2024 15:56

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:114 Resp: 2628694

Ion Ratio Lower Upper

114 100

63 25.1 20.2 30.2

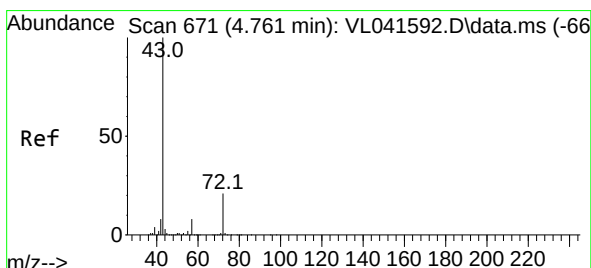
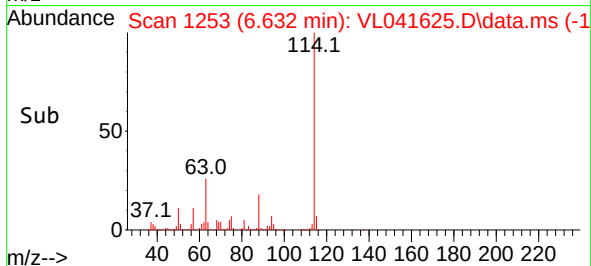
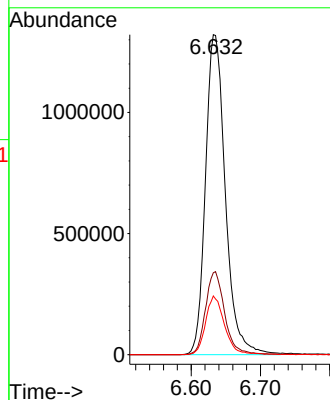
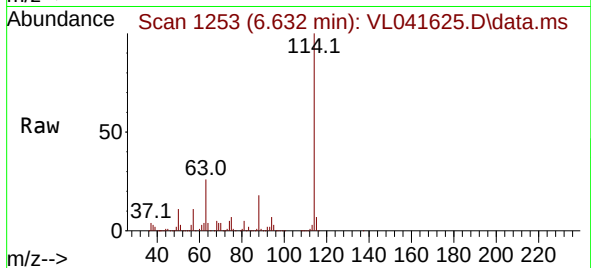
88 17.6 14.2 21.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/26/2024

Supervised By :Mahesh Dadoda 09/26/2024



#34

2-Butanone

Concen: 0.954 ppbv

RT: 4.767 min Scan# 673

Delta R.T. 0.006 min

Lab File: VL041625.D

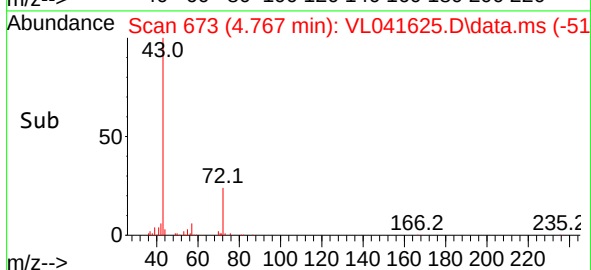
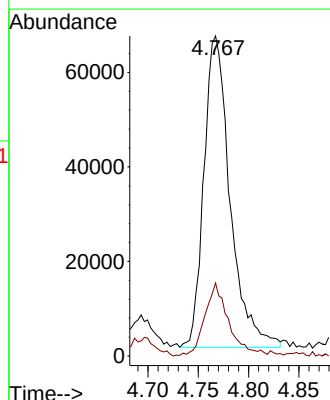
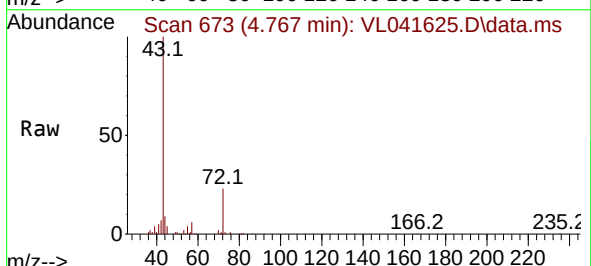
Acq: 25 Sep 2024 15:56

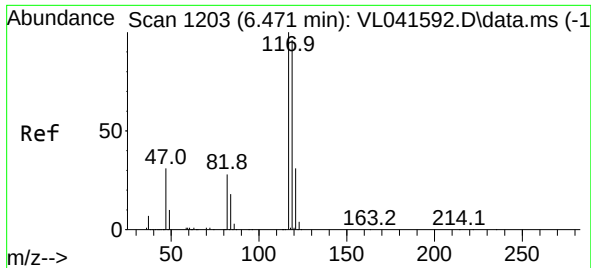
Tgt Ion: 43 Resp: 119527

Ion Ratio Lower Upper

43 100

72 22.7 16.8 25.2





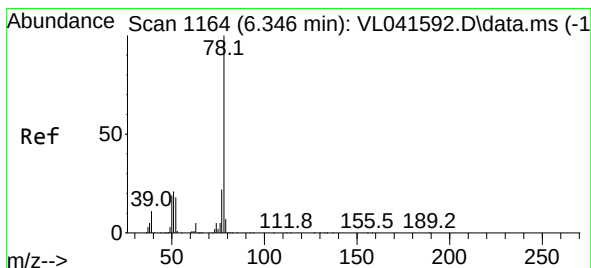
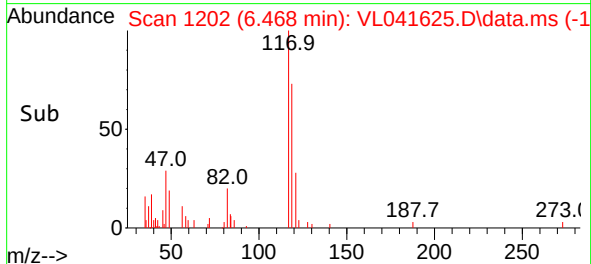
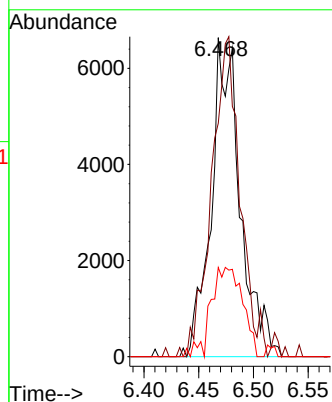
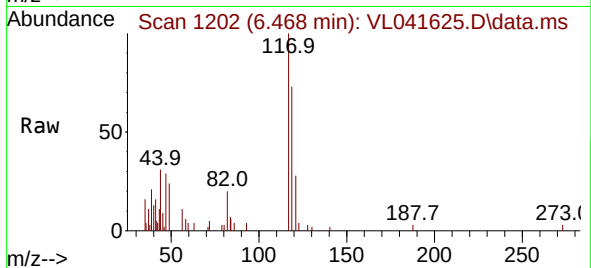
#35
Carbon Tetrachloride
Concen: 0.095 ppbv m
RT: 6.468 min Scan# 117
Delta R.T. -0.003 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 117 Resp: 12240
Ion Ratio Lower Upper
117 100
119 73.2 76.8 115.2#
121 27.9 25.0 37.6

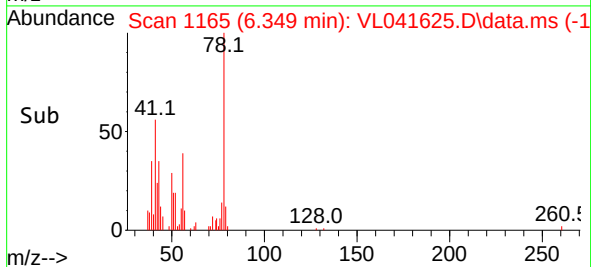
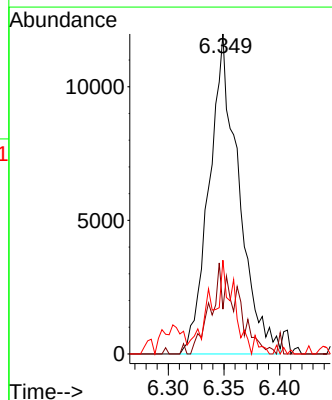
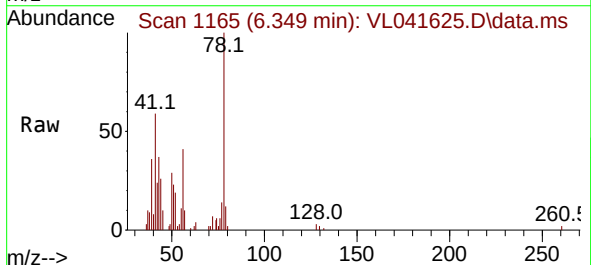
Manual Integrations
APPROVED

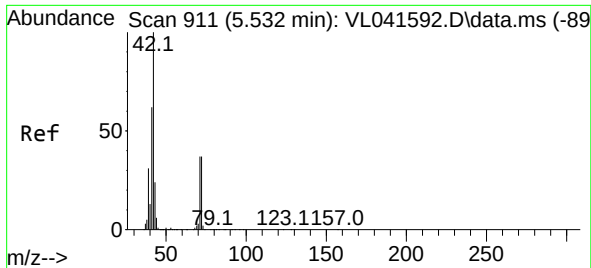
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#36
Benzene
Concen: 0.121 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Tgt Ion: 78 Resp: 22133
Ion Ratio Lower Upper
78 100
77 14.0 17.8 26.6#
50 27.1 15.4 23.0#





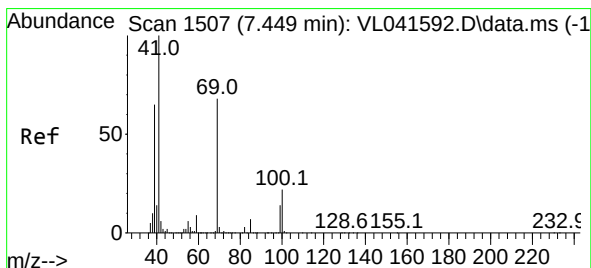
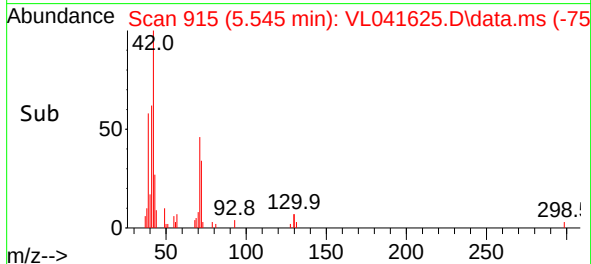
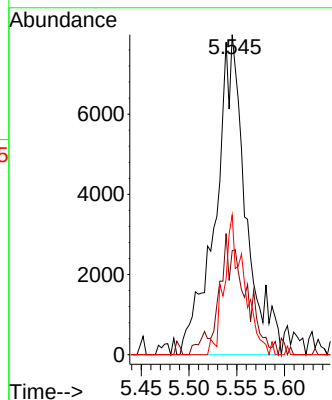
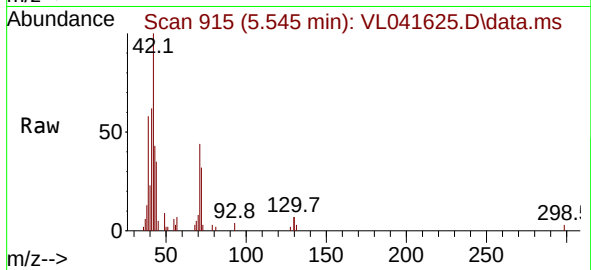
#41
Tetrahydrofuran
Concen: 0.256 ppbv m
RT: 5.545 min Scan# 911
Delta R.T. 0.013 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 42 Resp: 17620
Ion Ratio Lower Upper
42 100
72 34.6 30.2 45.2
71 0.0 29.6 44.4

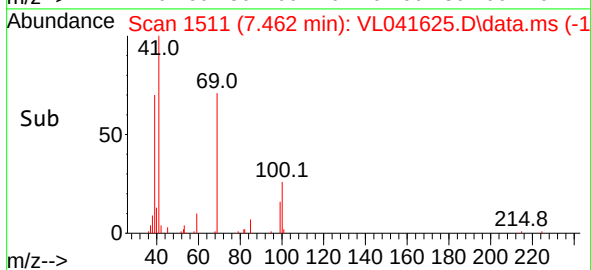
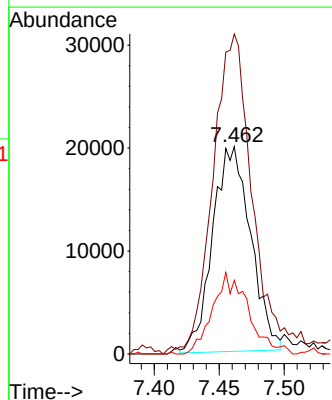
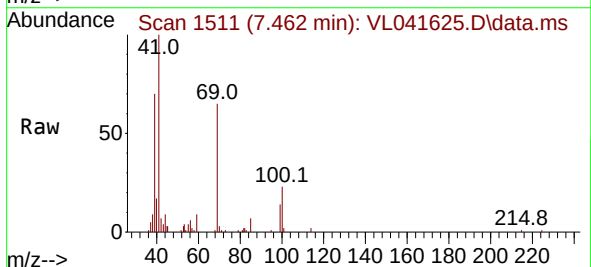
Manual Integrations
APPROVED

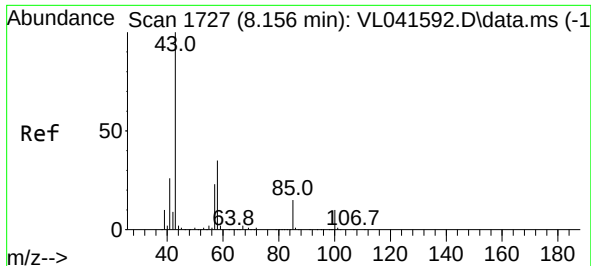
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#43
Methyl Methacrylate
Concen: 0.622 ppbv
RT: 7.462 min Scan# 1511
Delta R.T. 0.013 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Tgt Ion: 69 Resp: 40663
Ion Ratio Lower Upper
69 100
41 165.3 121.8 182.6
100 37.1 26.5 39.7





#50

4-Methyl-2-Pentanone

Concen: 0.203 ppbv

RT: 8.172 min Scan# 1727

Delta R.T. 0.016 min

Lab File: VL041625.D

Acq: 25 Sep 2024 15:56

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 43 Resp: 3929

Ion Ratio Lower Upper

43 100

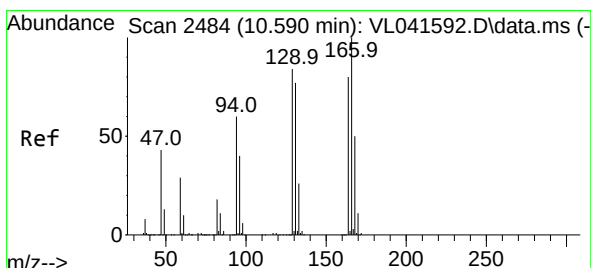
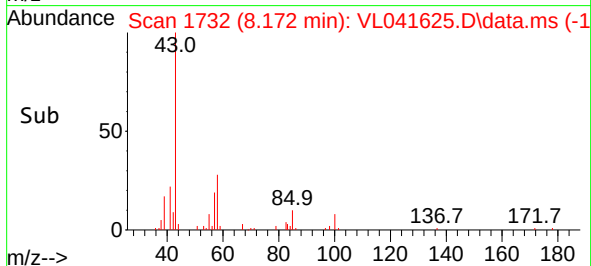
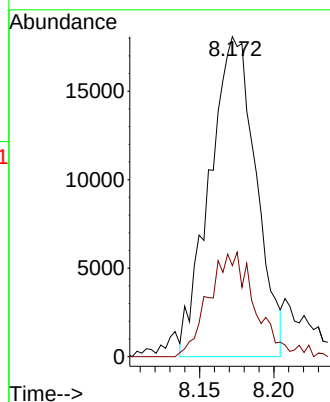
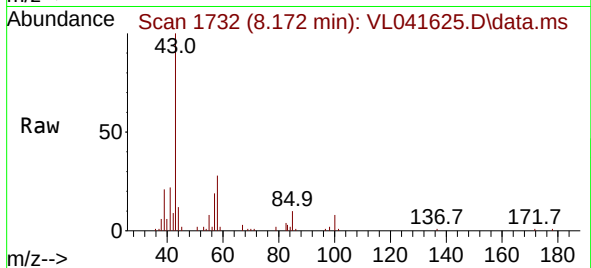
58 33.3 27.8 41.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/26/2024

Supervised By :Mahesh Dadoda 09/26/2024



#52

Tetrachloroethene

Concen: 0.059 ppbv m

RT: 10.603 min Scan# 2488

Delta R.T. 0.013 min

Lab File: VL041625.D

Acq: 25 Sep 2024 15:56

Tgt Ion:164 Resp: 3933

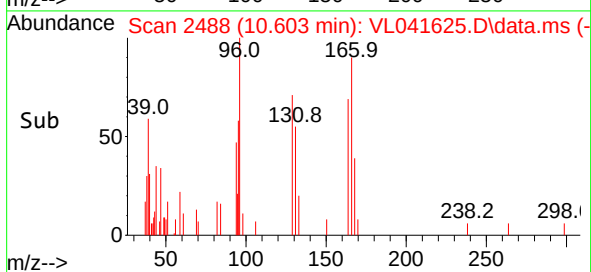
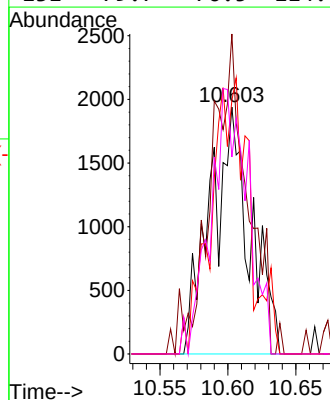
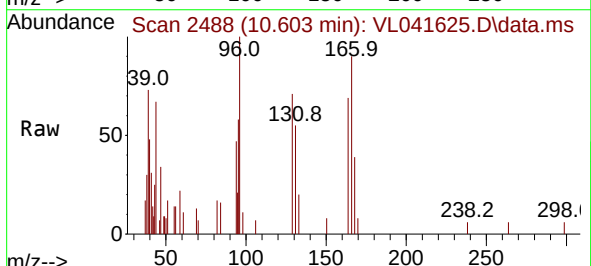
Ion Ratio Lower Upper

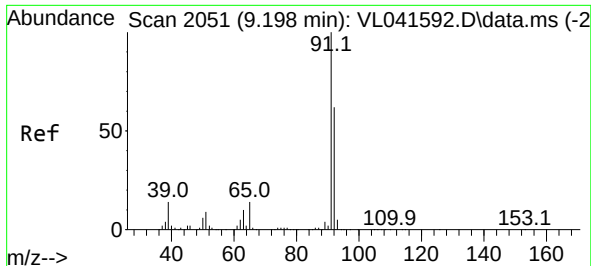
164 100

166 129.6 99.4 149.2

129 102.7 83.5 125.3

131 79.7 76.5 114.7





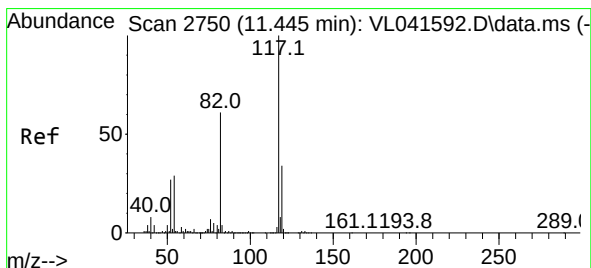
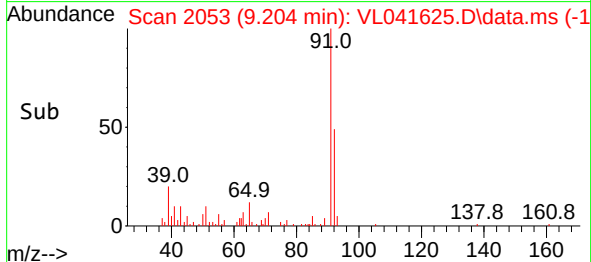
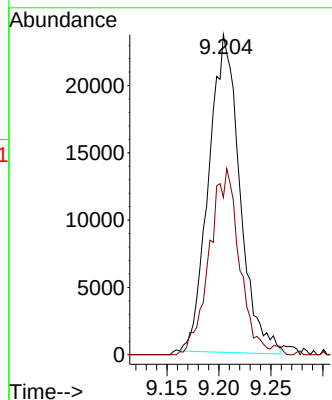
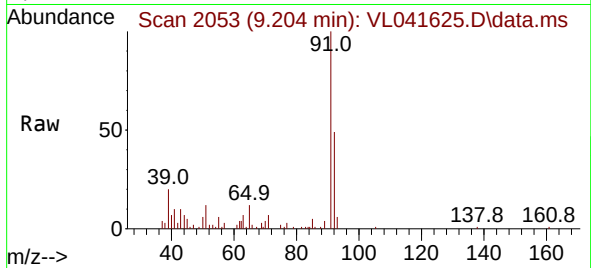
#53
Toluene
Concen: 0.254 ppbv
RT: 9.204 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 49259
Ion Ratio Lower Upper
91 100
92 57.2 48.9 73.3

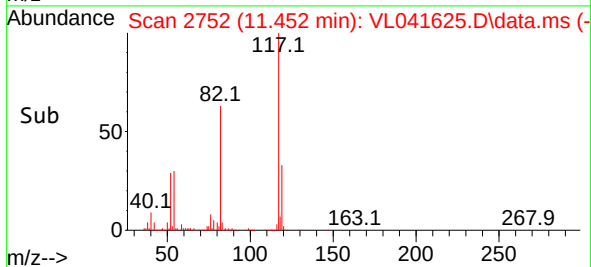
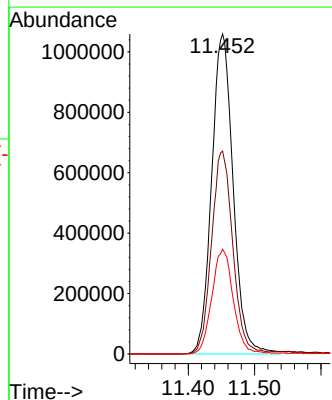
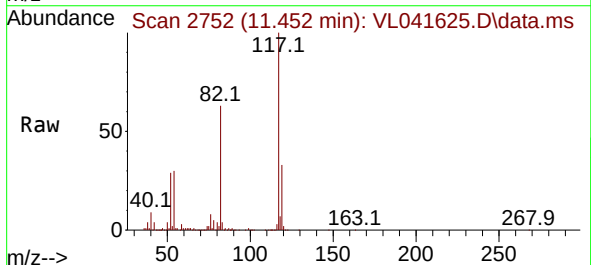
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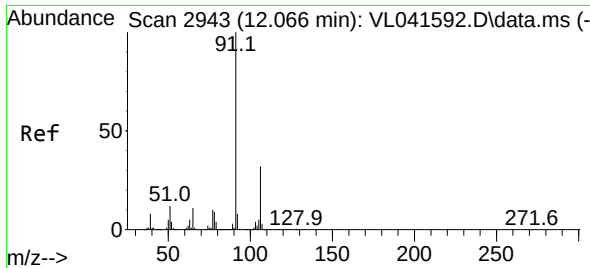
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. 0.006 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Tgt Ion:117 Resp: 2384486
Ion Ratio Lower Upper
117 100
82 64.1 49.4 74.2
119 32.9 24.4 36.6





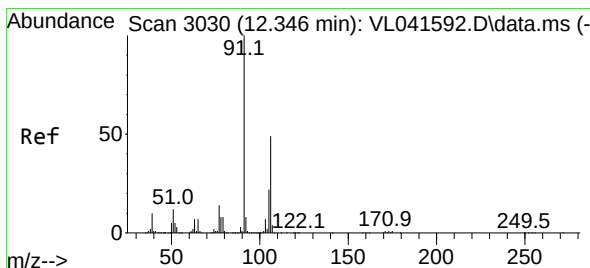
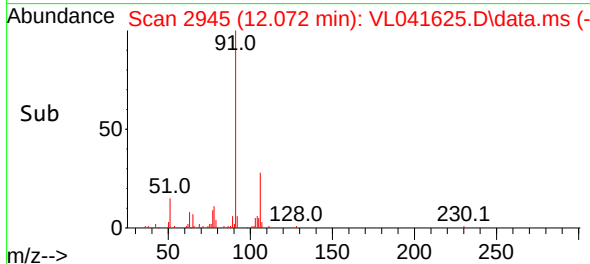
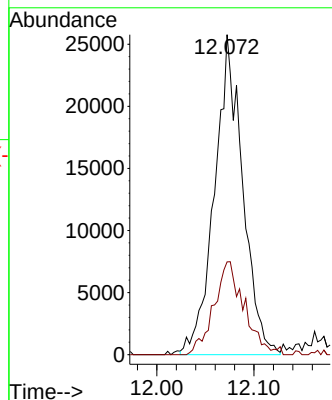
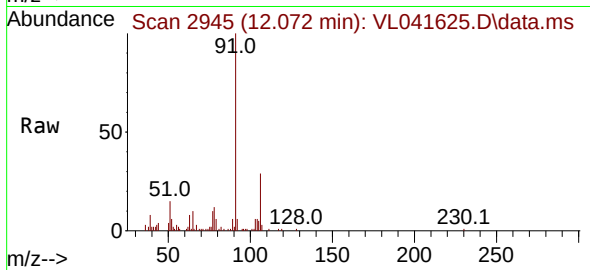
#58
Ethyl Benzene
Concen: 0.203 ppbv m
RT: 12.072 min Scan# 2943
Delta R.T. 0.006 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 5171
Ion Ratio Lower Upper
91 100
106 29.0 25.8 38.6

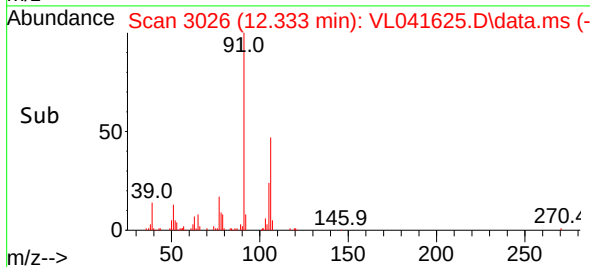
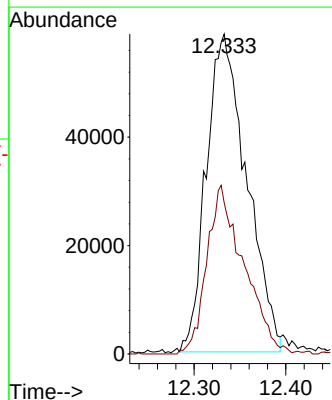
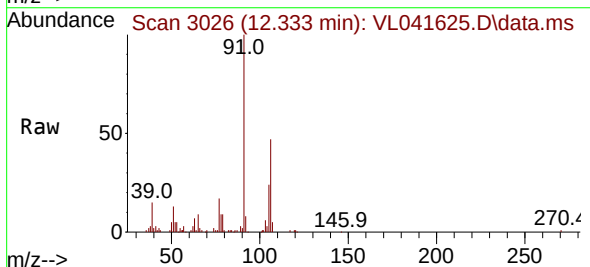
Manual Integrations
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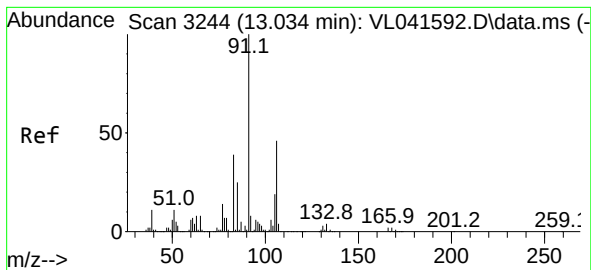
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#59
m/p-Xylene
Concen: 0.791 ppbv
RT: 12.333 min Scan# 3026
Delta R.T. -0.013 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Tgt Ion: 91 Resp: 179699
Ion Ratio Lower Upper
91 100
106 48.8 36.8 55.2





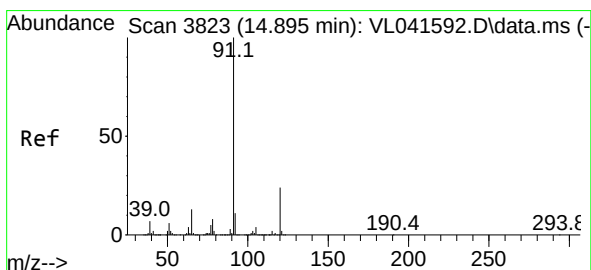
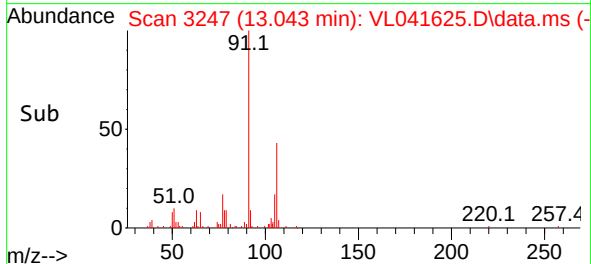
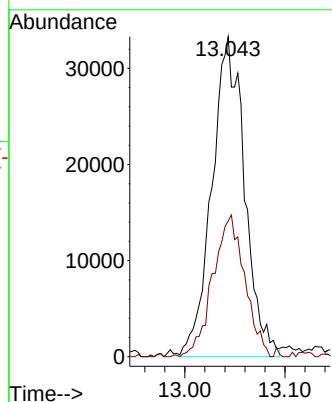
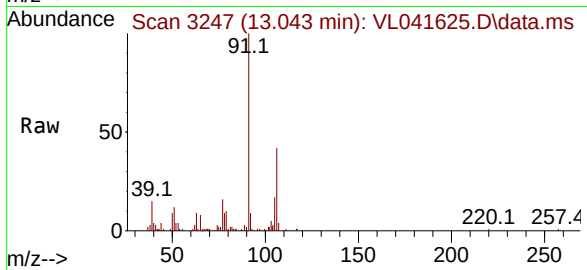
#60
o-Xylene
Concen: 0.347 ppbv m
RT: 13.043 min Scan# 31
Delta R.T. 0.009 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 7561
Ion Ratio Lower Upper
91 100
106 43.7 23.1 69.3

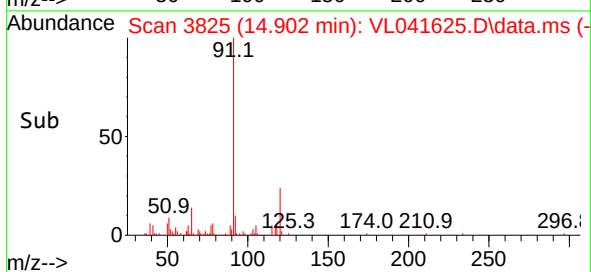
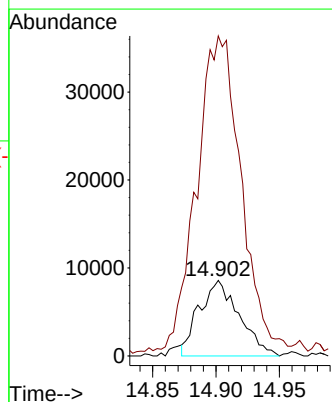
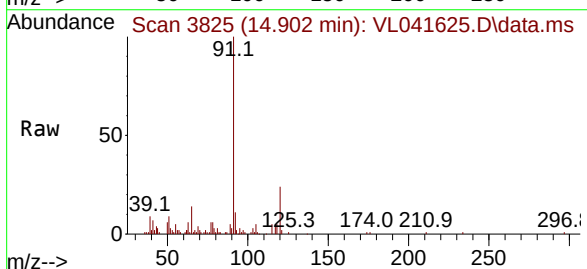
Manual Integrations
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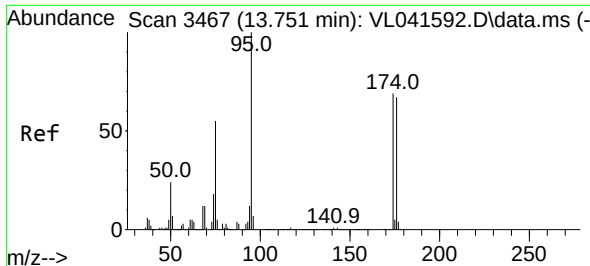
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024



#64
n-propylbenzene
Concen: 0.220 ppbv m
RT: 14.902 min Scan# 3825
Delta R.T. 0.006 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

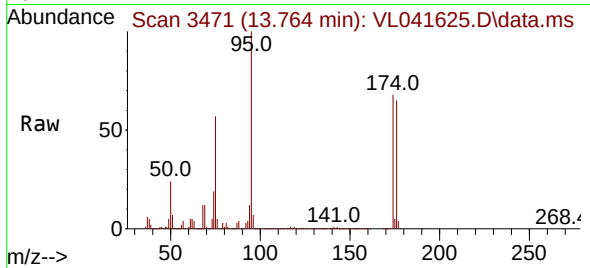
Tgt Ion:120 Resp: 18779
Ion Ratio Lower Upper
120 100
91 469.5 366.4 549.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 13.764 min Scan# 3467
Delta R.T. 0.013 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

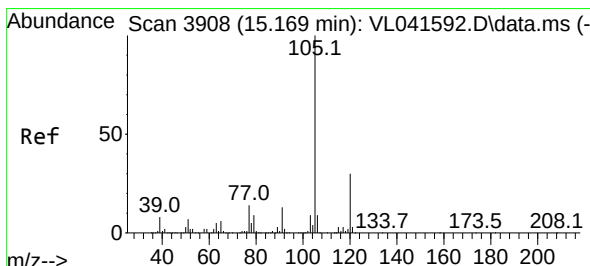
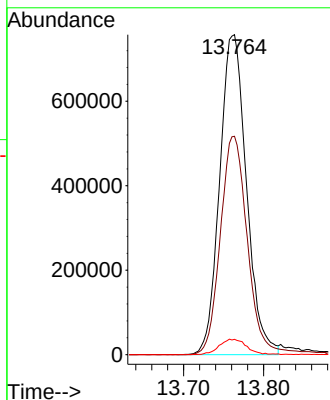
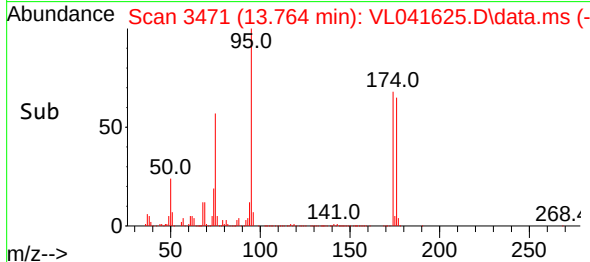
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



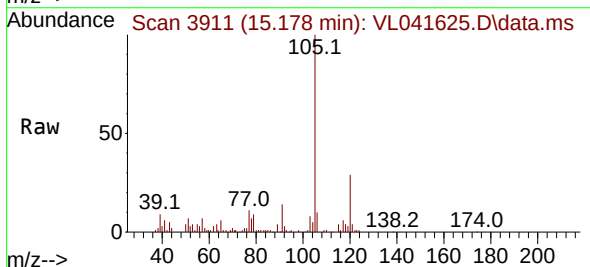
Tgt Ion: 95 Resp: 176091
Ion Ratio Lower Upper
95 100
174 70.6 55.8 83.8
175 5.0 4.1 6.1

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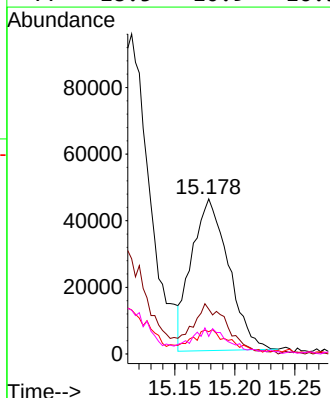
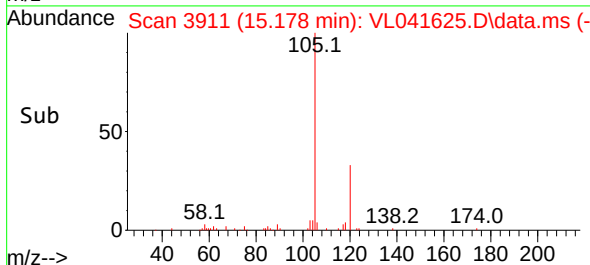
Reviewed By :Semsettin Yesilyurt 09/26/2024
Supervised By :Mahesh Dadoda 09/26/2024

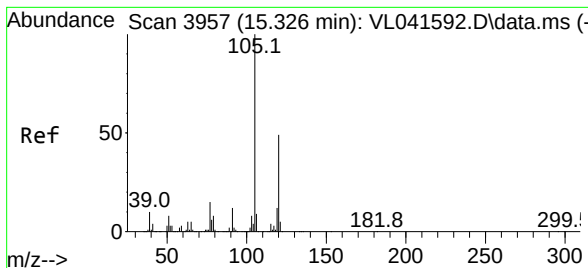


#72
4-Ethyltoluene
Concen: 0.385 ppbv
RT: 15.178 min Scan# 3911
Delta R.T. 0.009 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56



Tgt Ion:105 Resp: 97900
Ion Ratio Lower Upper
105 100
120 33.6 24.1 36.1
91 17.3 10.2 15.2#
77 18.5 10.9 16.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.387 ppbv m

RT: 15.336 min Scan# 3957

Delta R.T. 0.009 min

Lab File: VL041625.D

Acq: 25 Sep 2024 15:56

Instrument :

MSVOA_L

ClientSampleId :

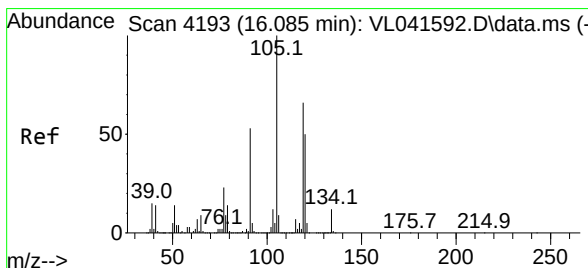
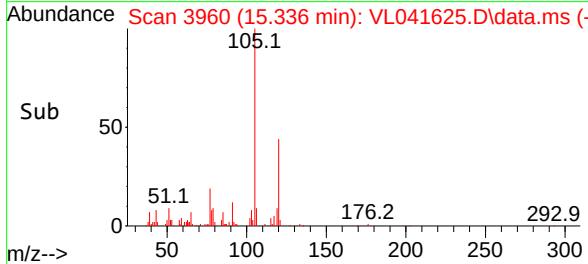
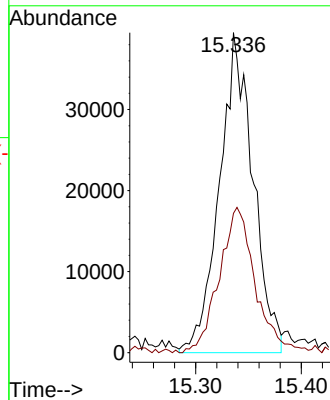
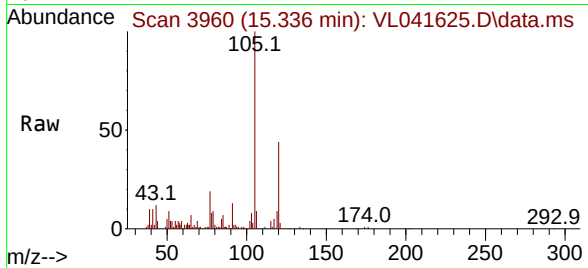
IA1DUP

Tgt Ion:105 Resp: 87114
 Ion Ratio Lower Upper
 105 100
 120 43.6 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: 1.022 ppbv

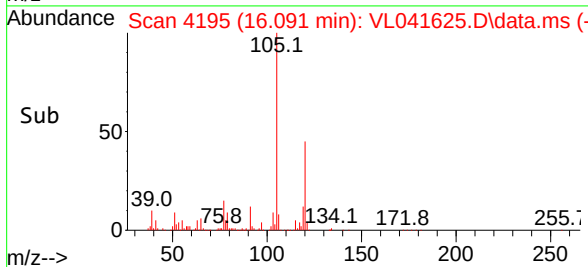
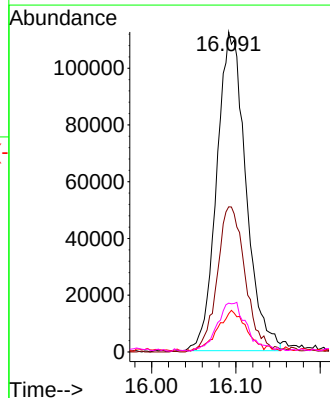
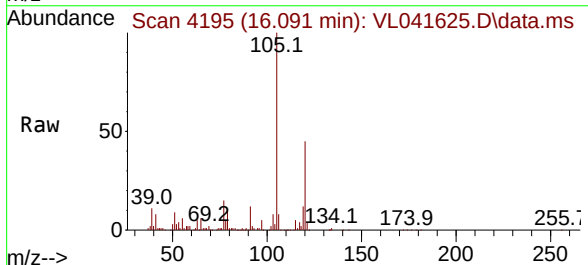
RT: 16.091 min Scan# 4195

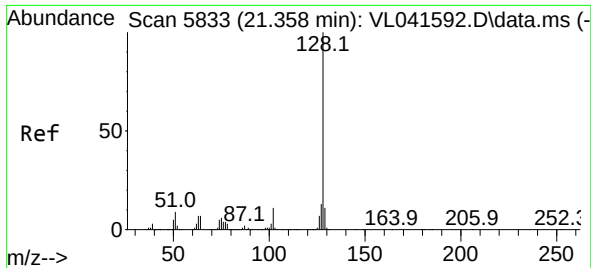
Delta R.T. 0.006 min

Lab File: VL041625.D

Acq: 25 Sep 2024 15:56

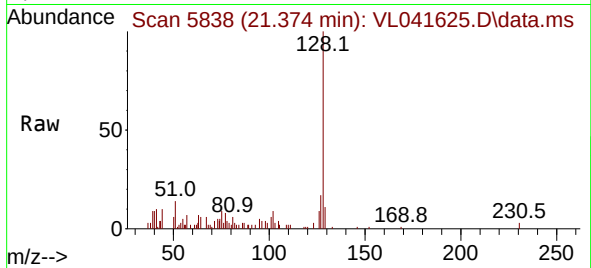
Tgt Ion:105 Resp: 268986
 Ion Ratio Lower Upper
 105 100
 120 45.6 39.9 59.9
 91 11.6 42.6 63.8#
 77 14.7 18.2 27.2#





#79
Naphthalene
Concen: 0.199 ppbv m
RT: 21.374 min Scan# 5838
Delta R.T. 0.016 min
Lab File: VL041625.D
Acq: 25 Sep 2024 15:56

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion	Ratio	Lower	Upper
128	100		
127	17.3	10.1	15.1
129	10.7	9.1	13.7

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

