

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041607.D
 Acq On : 18 Sep 2024 15:03
 Operator : SY/MD
 Sample : P4028-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2024
 Supervised By :Mahesh Dadoda 09/19/2024

Quant Time: Sep 19 01:33:44 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	5.195	49	943034	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.652	114	2578015	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.462	117	2328899	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1684243	9.824	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.739	85	39441	0.290	ppbv	89
3) Chlorodifluoromethane	2.684	51	43767m	0.383	ppbv	
4) Chloromethane	2.825	50	35571	0.565	ppbv	100
9) Propene	2.713	41	75693m	1.569	ppbv	
10) Heptane	7.581	43	98530	0.872	ppbv	94
11) Trichlorofluoromethane	3.565	101	34490	0.238	ppbv	93
13) Ethanol	3.243	45	996713	274.787	ppbv	98
15) Acetone	3.468	43	4039091	34.116	ppbv	98
19) Isopropyl Alcohol	3.581	45	4780692	78.880	ppbv #	97
20) Methylene Chloride	3.938	84	70319	1.581	ppbv	93
26) Hexane	5.214	57	67890	0.766	ppbv #	43
29) Chloroform	5.279	83	23194	0.160	ppbv	97
34) 2-Butanone	4.796	43	63444	0.516	ppbv	95
35) Carbon Tetrachloride	6.491	117	9455m	0.075	ppbv	
36) Benzene	6.375	78	35484m	0.198	ppbv	
44) 2,2,4-Trimethylpentane	7.327	57	32856m	0.106	ppbv	
52) Tetrachloroethene	10.623	164	7959m	0.123	ppbv	
53) Toluene	9.221	91	320302	1.685	ppbv	99
58) Ethyl Benzene	12.092	91	39539m	0.159	ppbv	
59) m/p-Xylene	12.336	91	100575m	0.453	ppbv	
60) o-Xylene	13.053	91	44857m	0.211	ppbv	
64) n-propylbenzene	14.925	120	11392m	0.137	ppbv	
72) 4-Ethyltoluene	15.191	105	49948	0.201	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.346	105	48371m	0.220	ppbv	
74) 1,2,4-Trimethylbenzene	16.108	105	207247	0.806	ppbv #	67

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

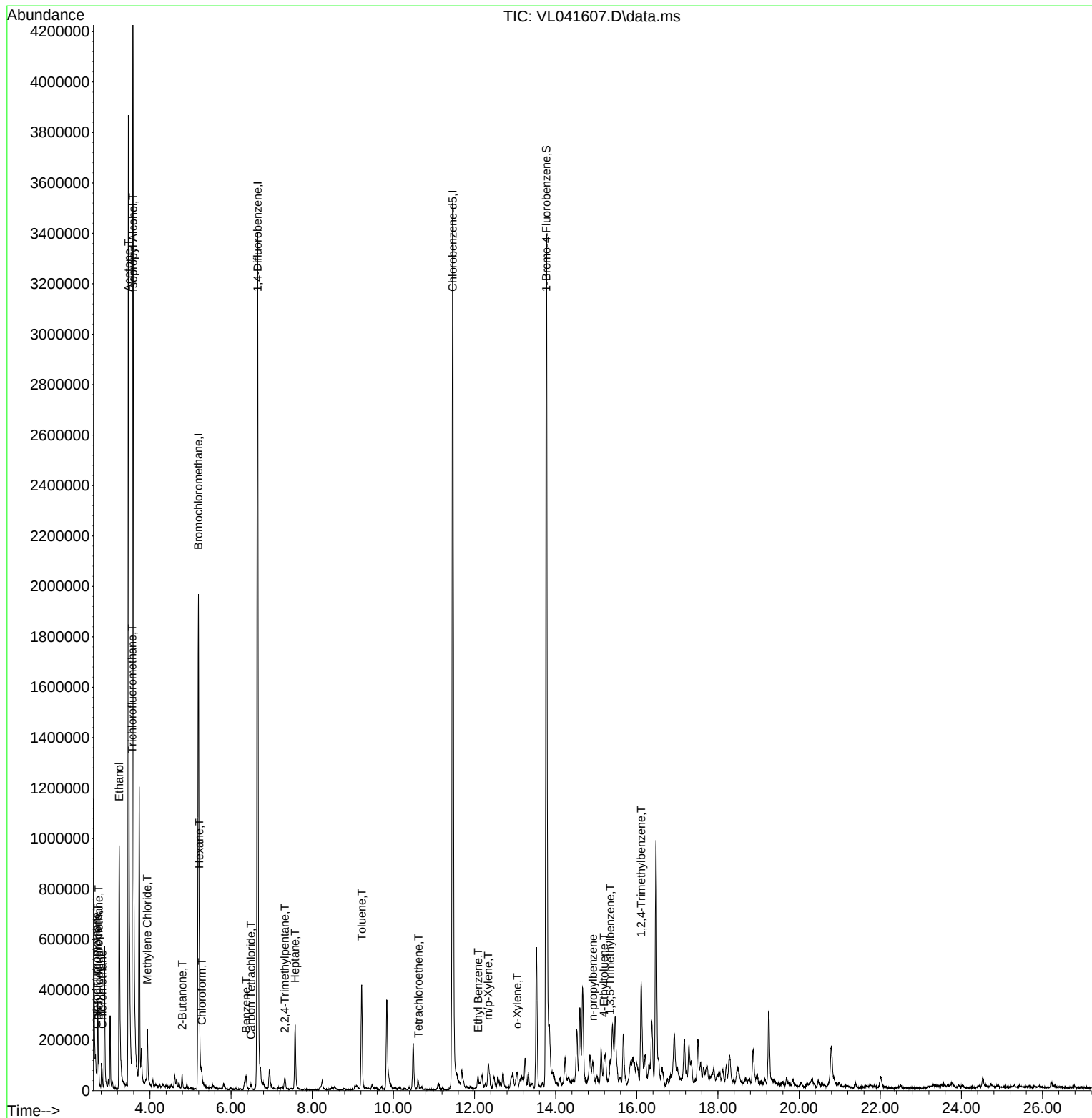
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
Data File : VL041607.D
Acq On : 18 Sep 2024 15:03
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ALS Vial : 1 Sample Multiplier: 1

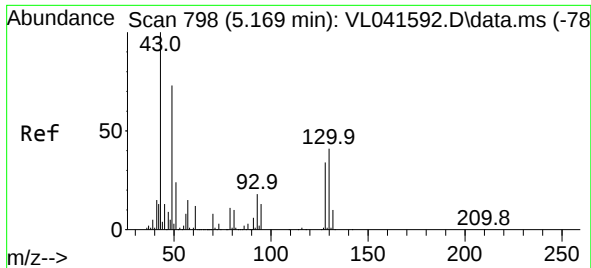
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Sep 19 01:33:44 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

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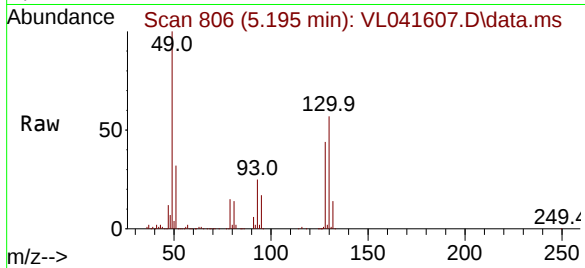
Reviewed By : Semsettin Yesilyurt 09/19/2024
Supervised By : Mahesh Dadoda 09/19/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.026 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

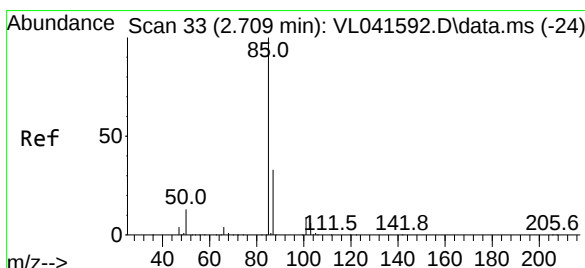
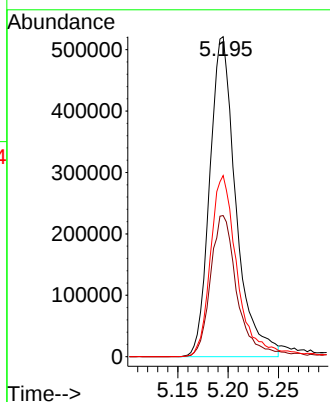
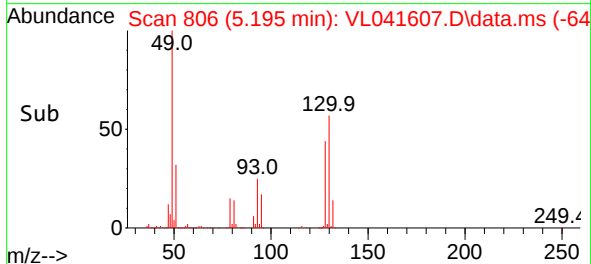
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 943034
Ion Ratio Lower Upper
49 100
128 46.3 23.8 71.5
130 59.4 30.4 91.3

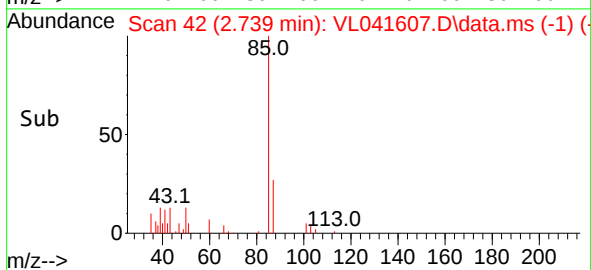
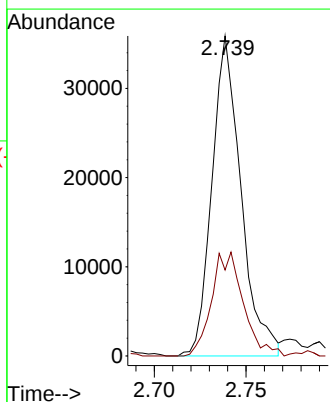
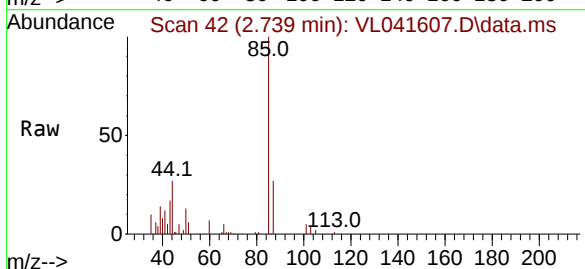
Manual Integrations
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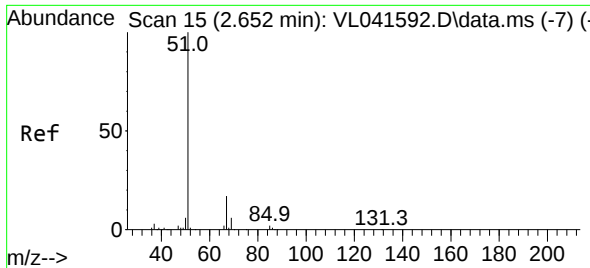
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#2
Dichlorodifluoromethane
Concen: 0.290 ppbv
RT: 2.739 min Scan# 42
Delta R.T. 0.029 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

Tgt Ion: 85 Resp: 39441
Ion Ratio Lower Upper
85 100
87 26.8 26.3 39.5





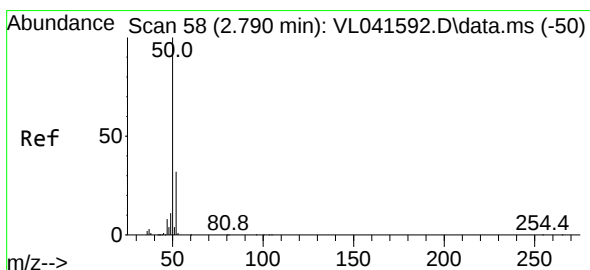
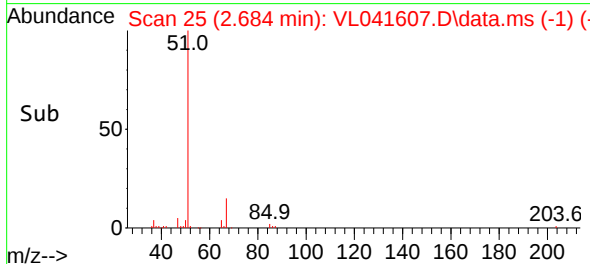
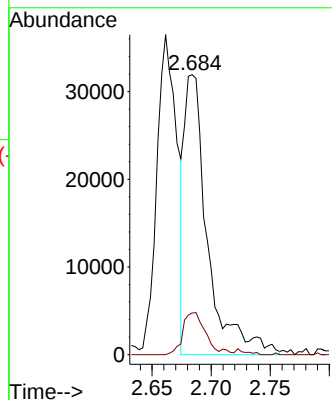
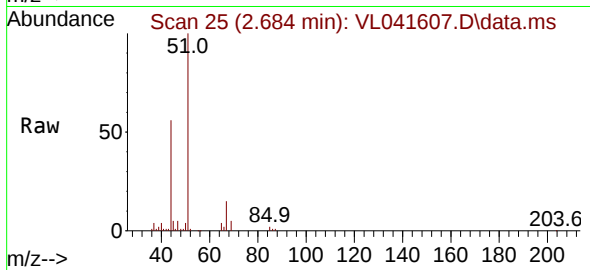
#3
Chlorodifluoromethane
Concen: 0.383 ppbv m
RT: 2.684 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 51 Resp: 4376
Ion Ratio Lower Upper
51 100
67 15.7 14.1 21.1

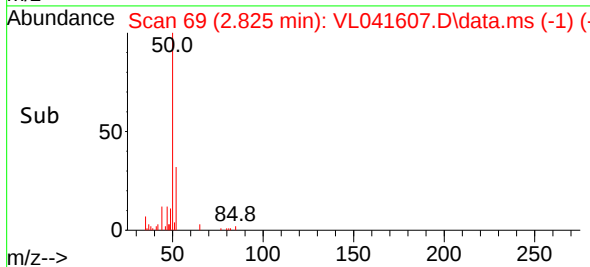
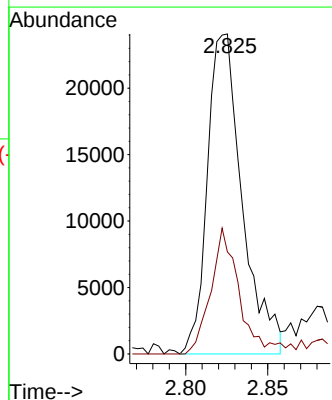
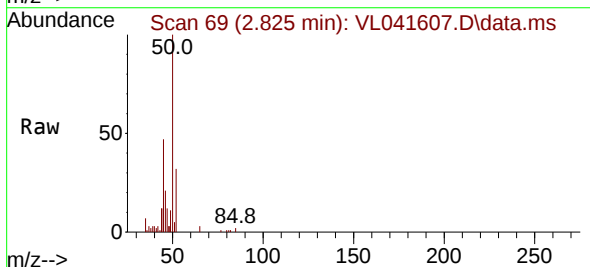
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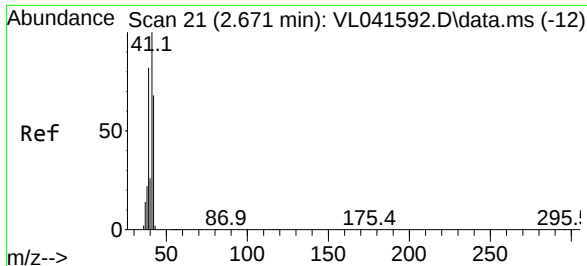
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#4
Chloromethane
Concen: 0.565 ppbv
RT: 2.825 min Scan# 69
Delta R.T. 0.036 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

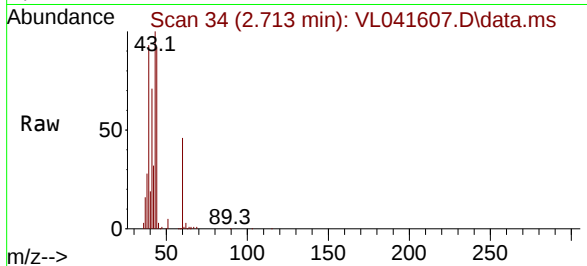
Tgt Ion: 50 Resp: 35571
Ion Ratio Lower Upper
50 100
52 31.9 25.4 38.2





#9
Propene
Concen: 1.569 ppbv m
RT: 2.713 min Scan# 34
Delta R.T. 0.042 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

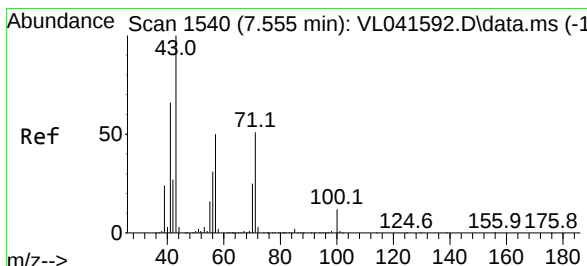
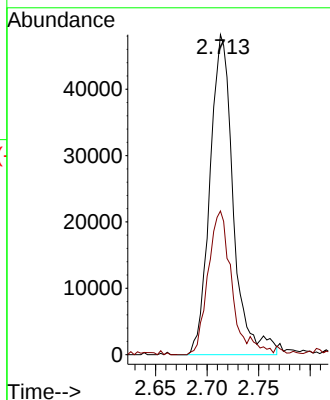
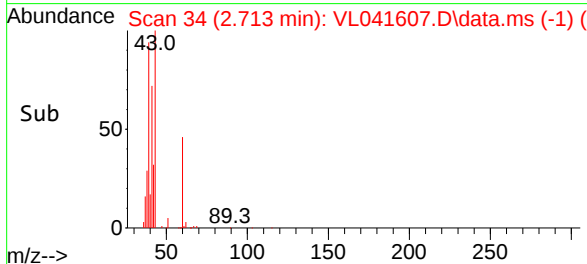
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 41 Resp: 7569
Ion Ratio Lower Upper
41 100
42 136.5 55.2 82.8

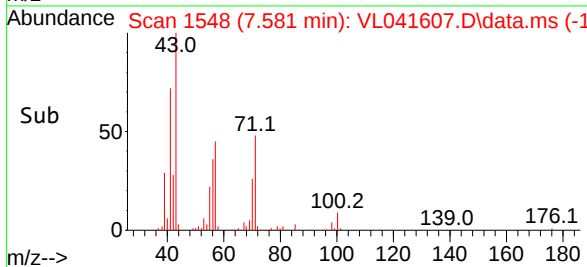
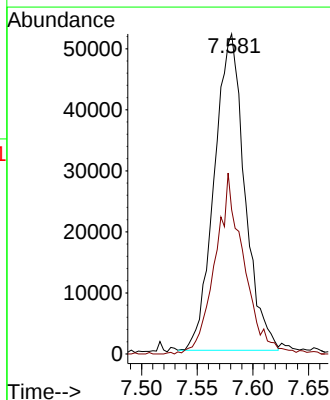
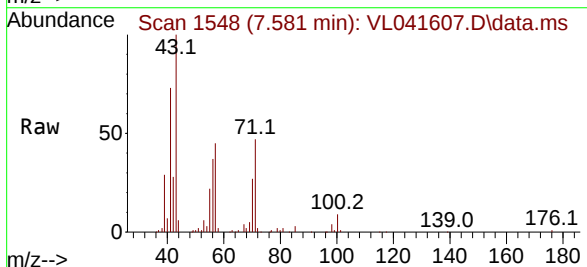
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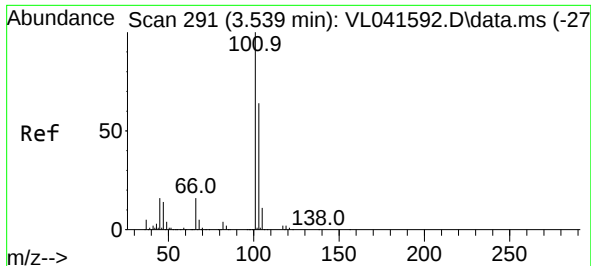
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#10
Heptane
Concen: 0.872 ppbv
RT: 7.581 min Scan# 1548
Delta R.T. 0.026 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

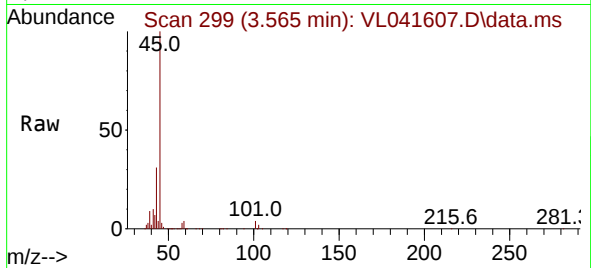
Tgt Ion: 43 Resp: 98530
Ion Ratio Lower Upper
43 100
57 54.0 39.8 59.8





#11
Trichlorofluoromethane
Concen: 0.238 ppbv
RT: 3.565 min Scan# 291
Delta R.T. 0.026 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

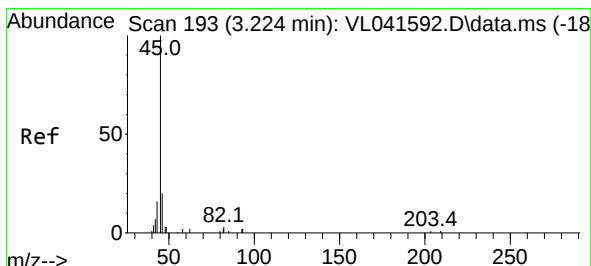
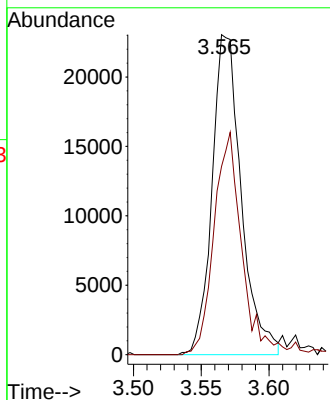
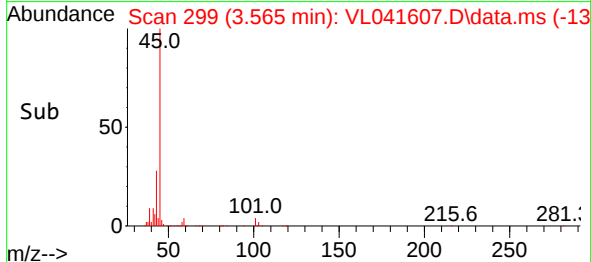
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:101 Resp: 34490
Ion Ratio Lower Upper
101 100
103 58.8 51.2 76.8

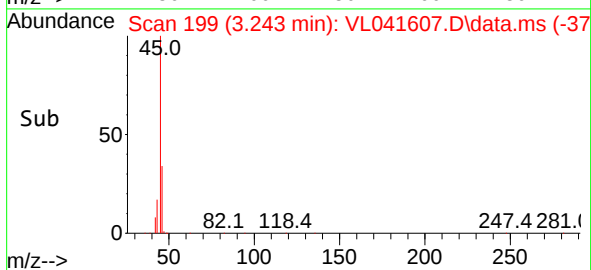
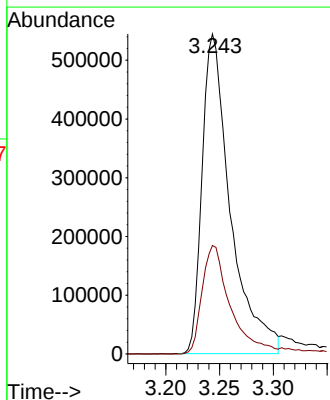
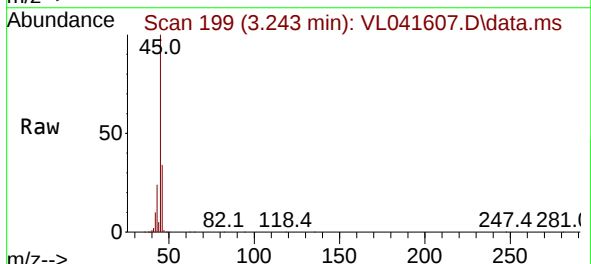
Manual Integrations
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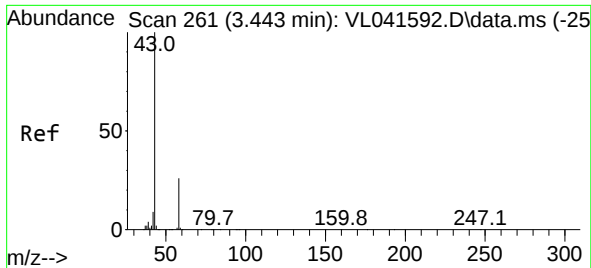
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#13
Ethanol
Concen: 274.787 ppbv
RT: 3.243 min Scan# 199
Delta R.T. 0.019 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

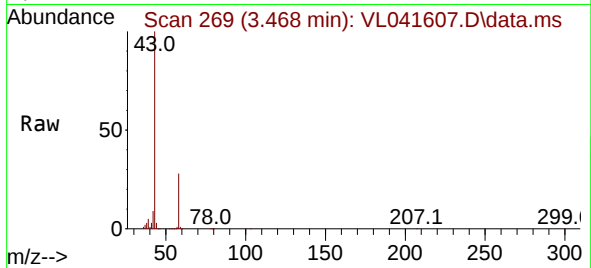
Tgt Ion: 45 Resp: 996713
Ion Ratio Lower Upper
45 100
46 36.8 15.2 60.8





#15
Acetone
Concen: 34.116 ppbv
RT: 3.468 min Scan# 20
Delta R.T. 0.026 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

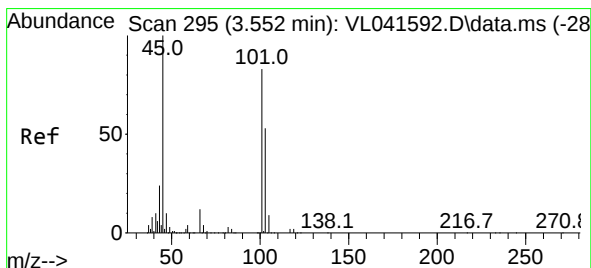
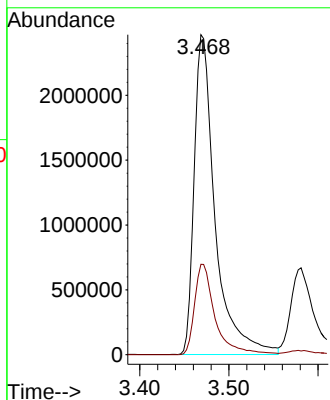
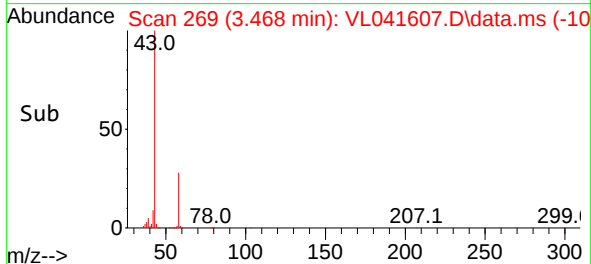
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 403909
Ion Ratio Lower Upper
43 100
58 27.7 21.5 32.3

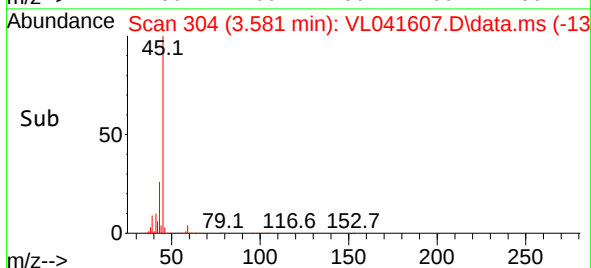
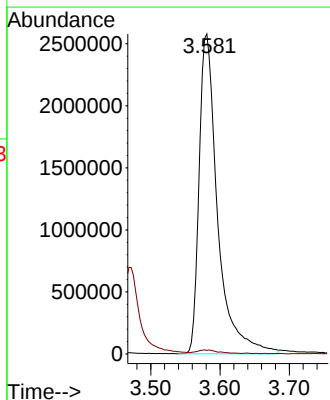
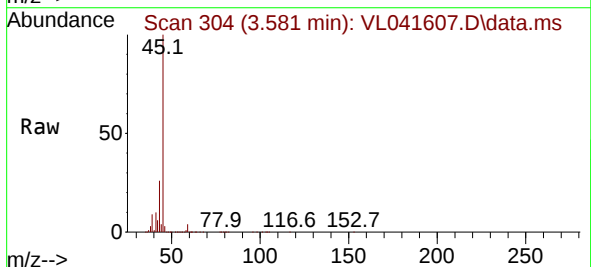
Manual Integrations
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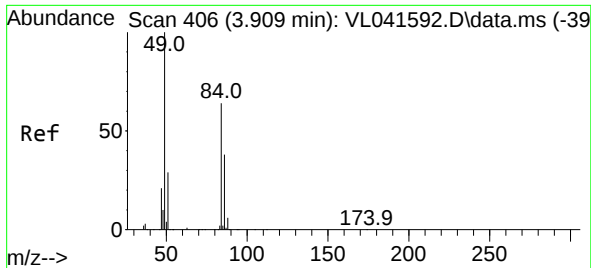
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#19
Isopropyl Alcohol
Concen: 78.880 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.029 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

Tgt Ion: 45 Resp: 4780692
Ion Ratio Lower Upper
45 100
58 1.6 2.1 3.1#





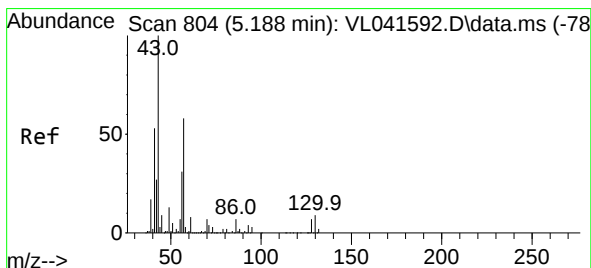
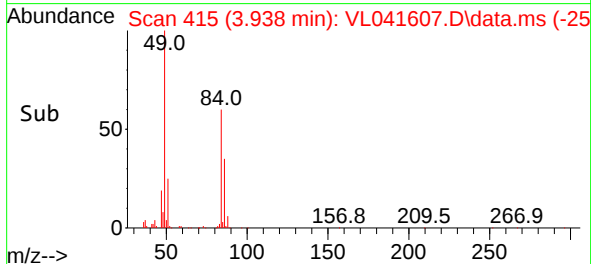
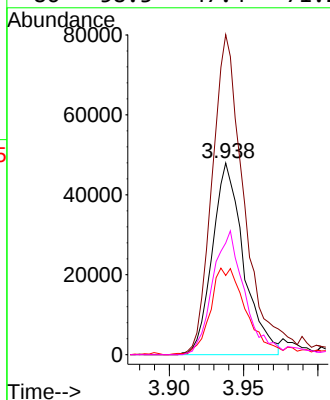
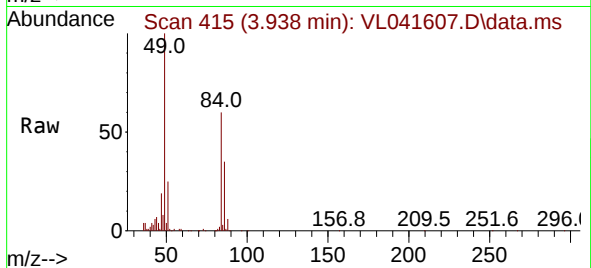
#20
Methylene Chloride
Concen: 1.581 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.029 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 84 Resp: 70319
Ion Ratio Lower Upper
84 100
49 166.9 124.3 186.5
51 40.7 36.3 54.5
86 58.3 47.4 71.2

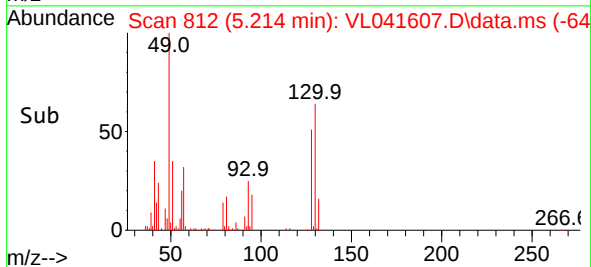
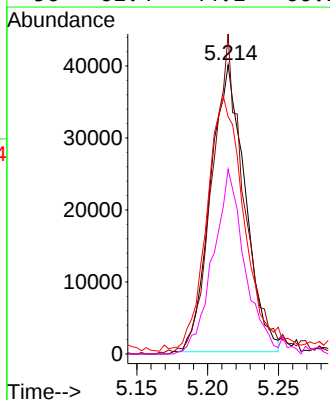
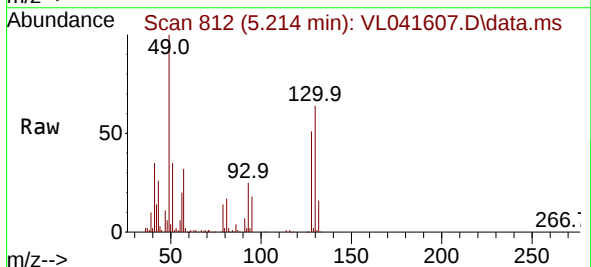
Manual Integrations
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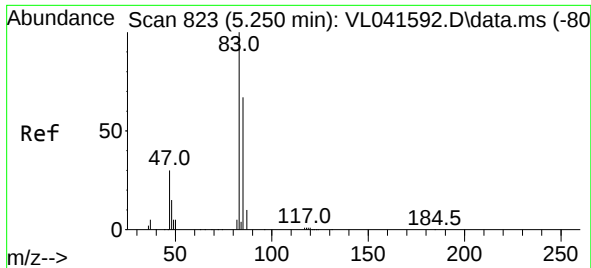
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#26
Hexane
Concen: 0.766 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.026 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

Tgt Ion: 57 Resp: 67890
Ion Ratio Lower Upper
57 100
41 107.1 75.7 113.5
43 102.4 198.5 297.7#
56 61.4 44.1 66.1





#29

Chloroform

Concen: 0.160 ppbv

RT: 5.279 min Scan# 81

Delta R.T. 0.029 min

Lab File: VL041607.D

Acq: 18 Sep 2024 15:03

Instrument :

MSVOA_L

ClientSampleId :

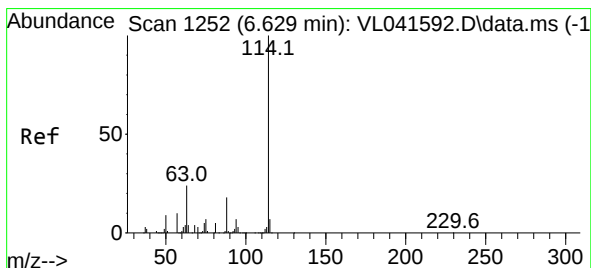
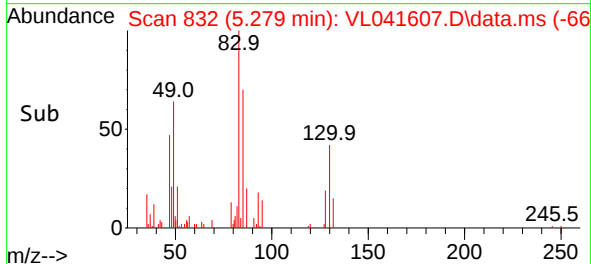
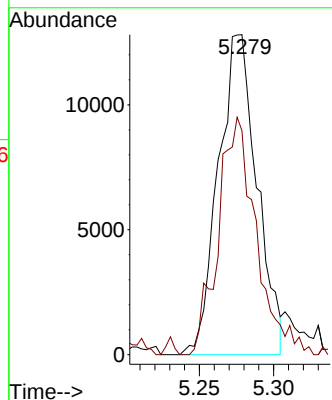
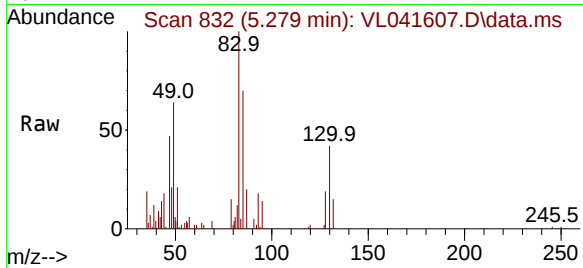
IA2

Tgt Ion: 83 Resp: 23194
 Ion Ratio Lower Upper
 83 100
 85 70.0 53.8 80.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/19/2024
 Supervised By :Mahesh Dadoda 09/19/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

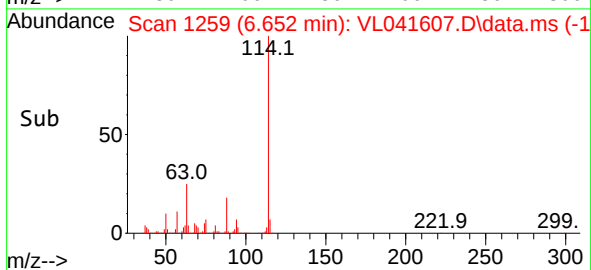
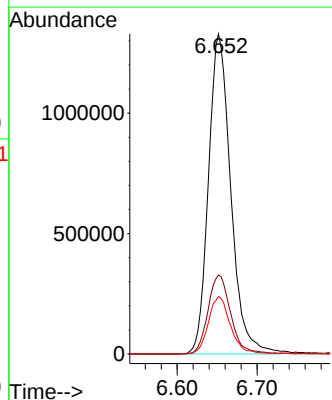
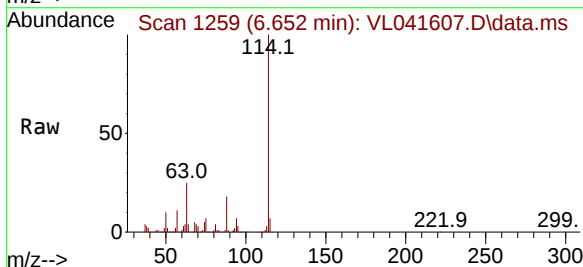
RT: 6.652 min Scan# 1259

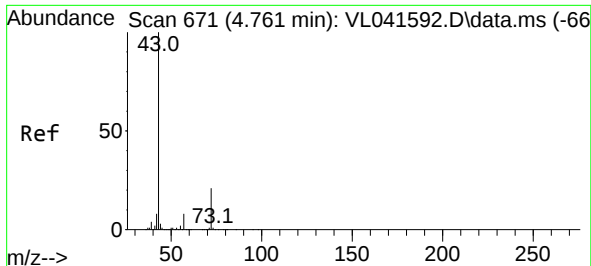
Delta R.T. 0.023 min

Lab File: VL041607.D

Acq: 18 Sep 2024 15:03

Tgt Ion:114 Resp: 2578015
 Ion Ratio Lower Upper
 114 100
 63 25.3 20.2 30.2
 88 17.9 14.2 21.4





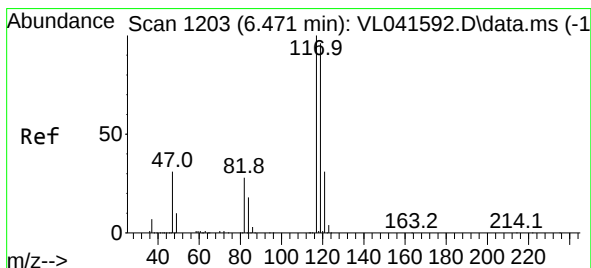
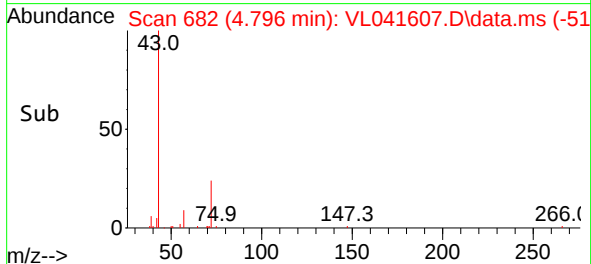
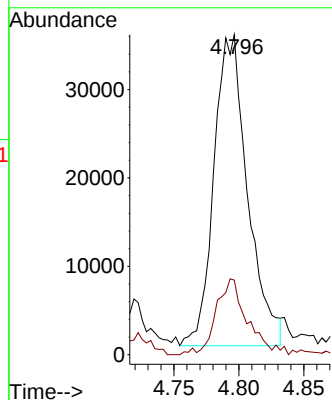
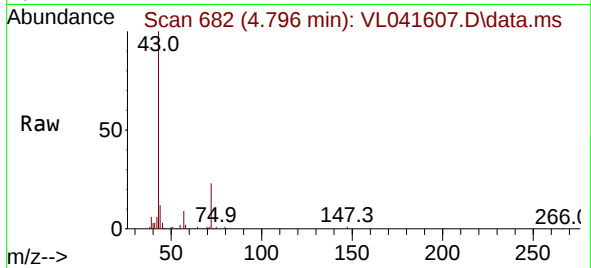
#34
2-Butanone
Concen: 0.516 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.036 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 6344
Ion Ratio Lower Upper
43 100
72 23.4 16.8 25.2

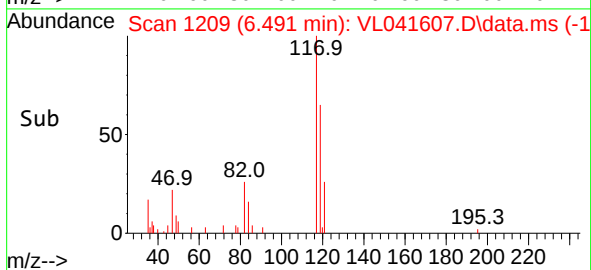
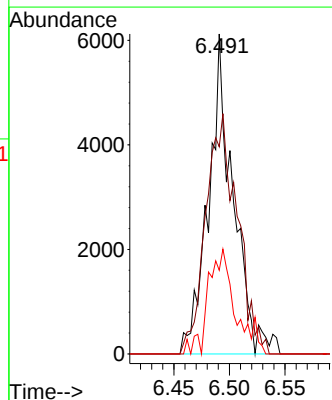
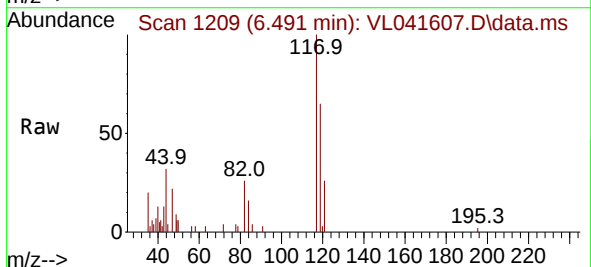
Manual Integrations
APPROVED

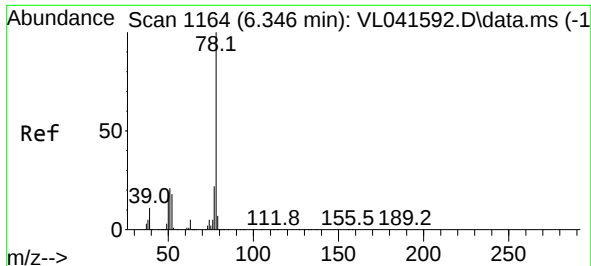
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 6.491 min Scan# 1209
Delta R.T. 0.019 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

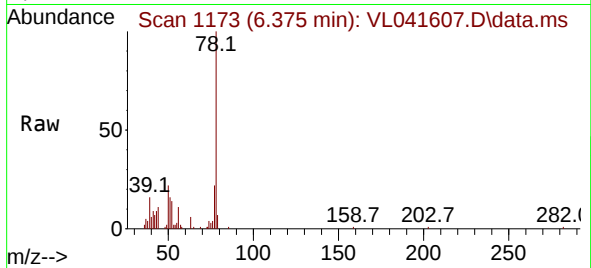
Tgt Ion:117 Resp: 9455
Ion Ratio Lower Upper
117 100
119 64.8 76.8 115.2#
121 26.1 25.0 37.6





#36
Benzene
Concen: 0.198 ppbv m
RT: 6.375 min Scan# 1164
Delta R.T. 0.029 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

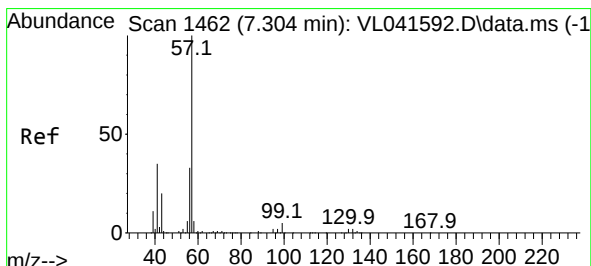
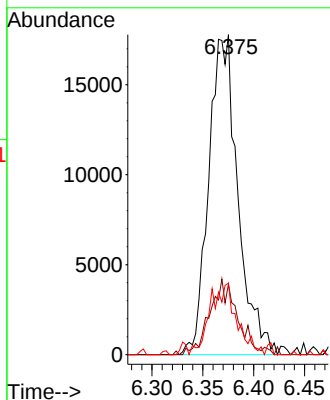
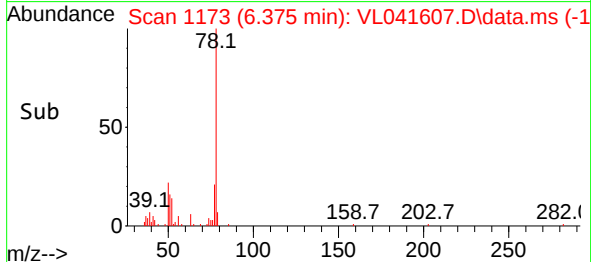
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 78 Resp: 35484
Ion Ratio Lower Upper
78 100
77 22.0 17.8 26.6
50 22.3 15.4 23.0

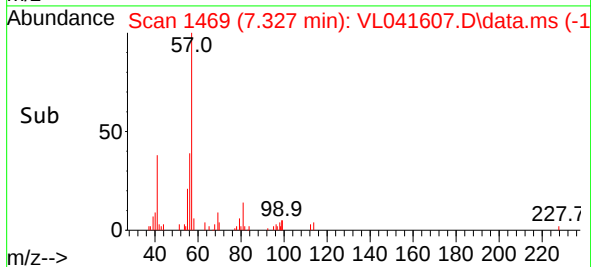
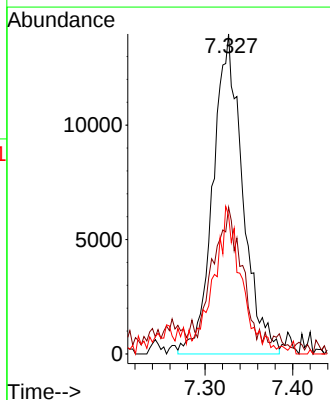
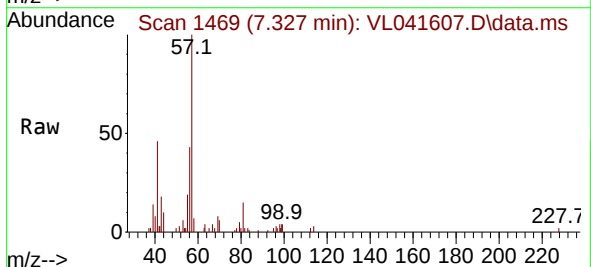
Manual Integrations
APPROVED

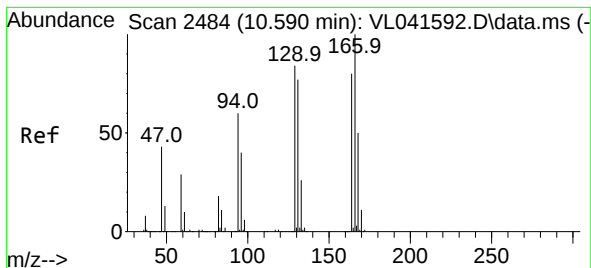
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#44
2,2,4-Trimethylpentane
Concen: 0.106 ppbv m
RT: 7.327 min Scan# 1469
Delta R.T. 0.023 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

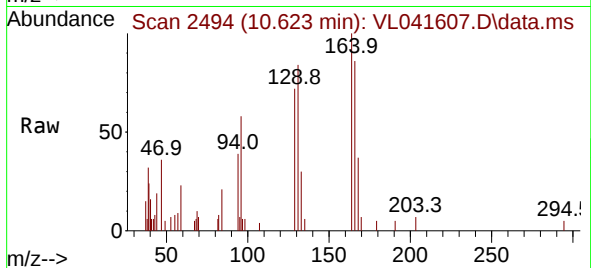
Tgt Ion: 57 Resp: 32856
Ion Ratio Lower Upper
57 100
41 43.6 27.0 40.6#
56 53.7 25.5 38.3#





#52
Tetrachloroethene
Concen: 0.123 ppbv m
RT: 10.623 min Scan# 2484
Delta R.T. 0.032 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

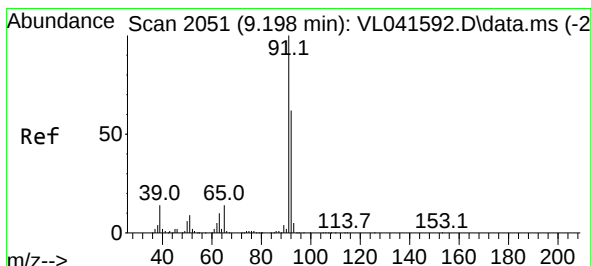
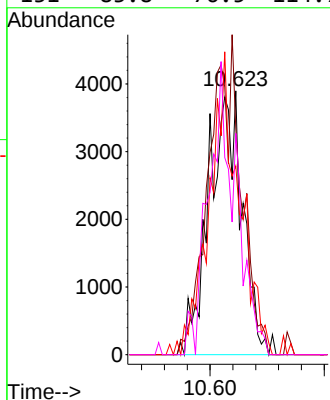
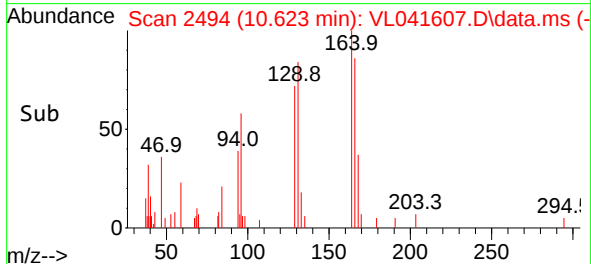
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:164 Resp: 7958
Ion Ratio Lower Upper
164 100
166 85.6 99.4 149.2
129 71.5 83.5 125.3
131 83.8 76.5 114.7

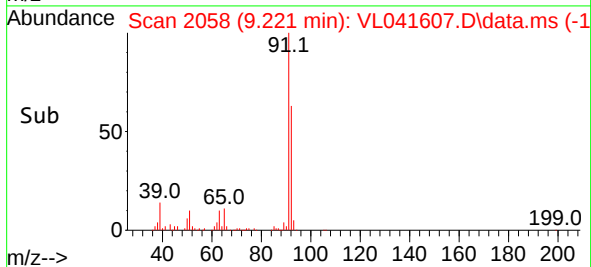
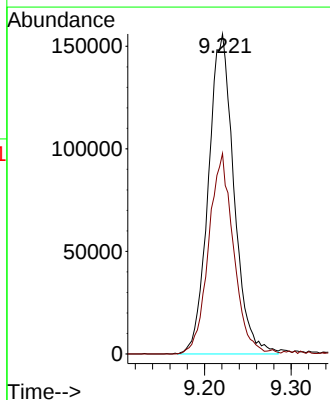
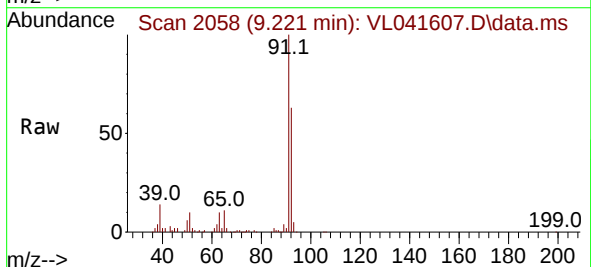
Manual Integrations
APPROVED

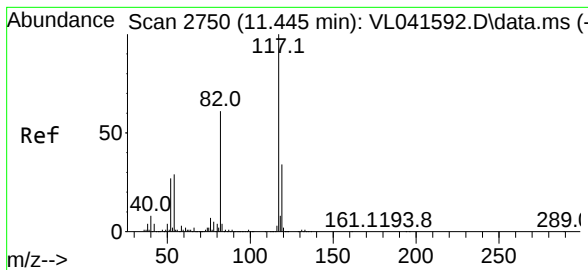
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#53
Toluene
Concen: 1.685 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. 0.023 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

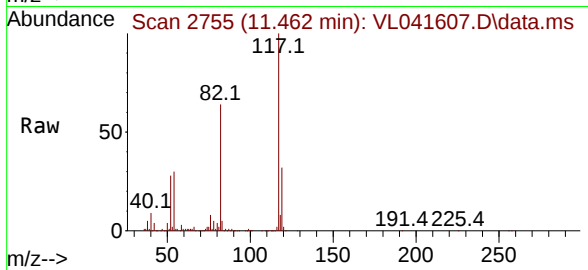
Tgt Ion: 91 Resp: 320302
Ion Ratio Lower Upper
91 100
92 61.8 48.9 73.3





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

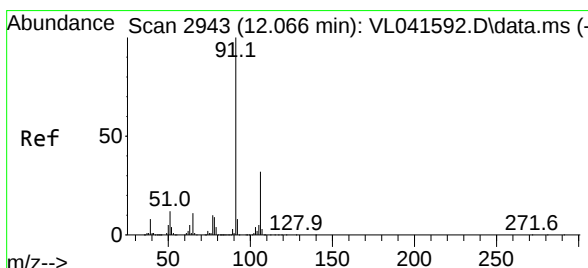
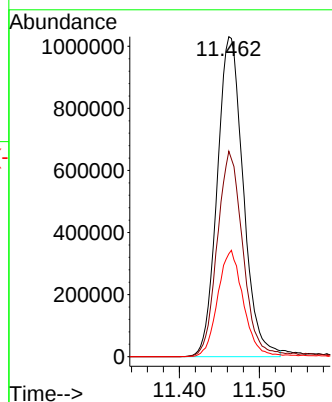
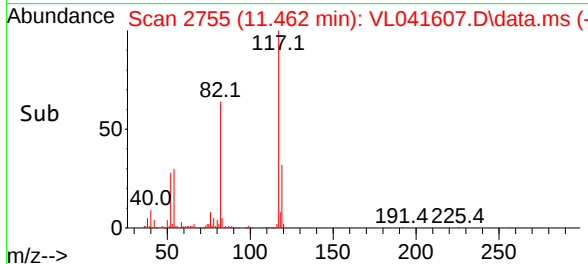
Instrument :
MSVOA_L
ClientSampleId :
IA2



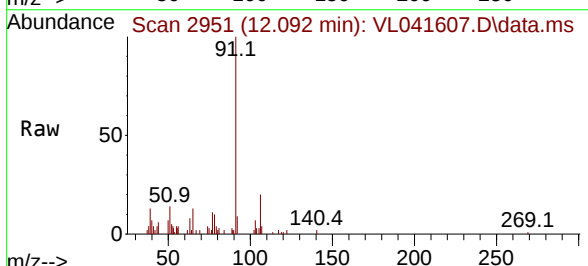
Tgt Ion:117 Resp: 232889
Ion Ratio Lower Upper
117 100
82 65.0 49.4 74.2
119 33.3 24.4 36.6

Manual Integrations
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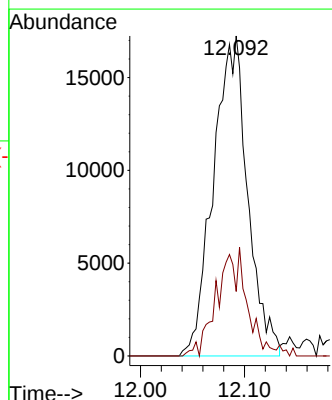
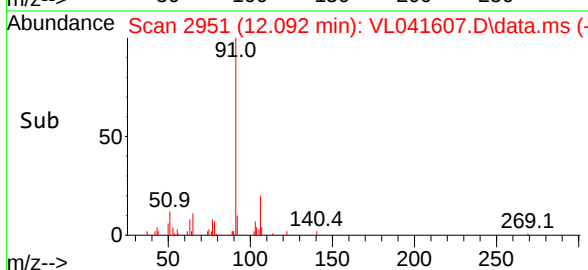
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024

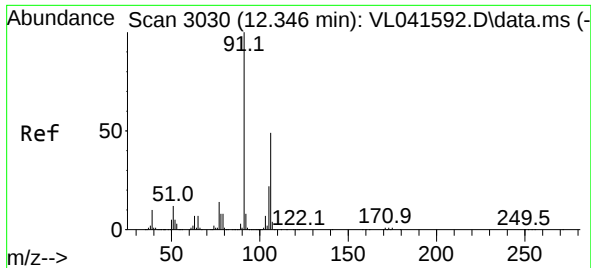


#58
Ethyl Benzene
Concen: 0.159 ppbv m
RT: 12.092 min Scan# 2951
Delta R.T. 0.026 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03



Tgt Ion: 91 Resp: 39539
Ion Ratio Lower Upper
91 100
106 20.1 25.8 38.6#





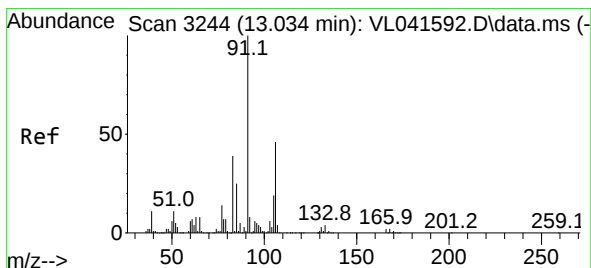
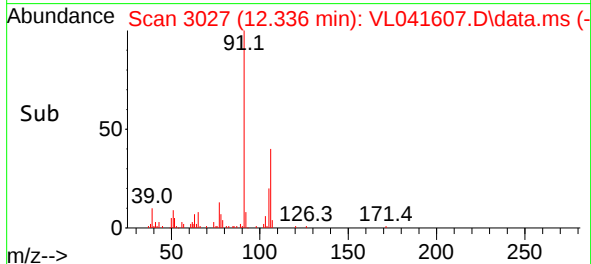
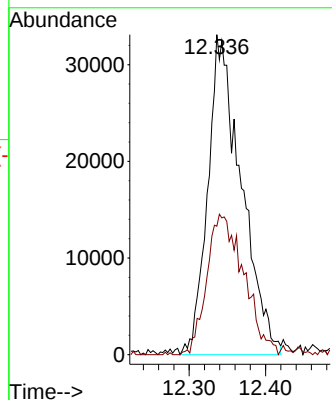
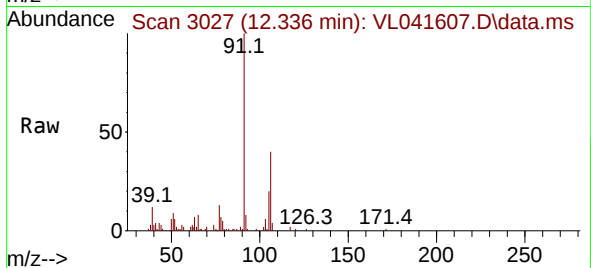
#59
m/p-Xylene
Concen: 0.453 ppbv m
RT: 12.336 min Scan# 3030
Delta R.T. -0.009 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 91 Resp: 100579
Ion Ratio Lower Upper
91 100
106 0.0 36.8 55.2

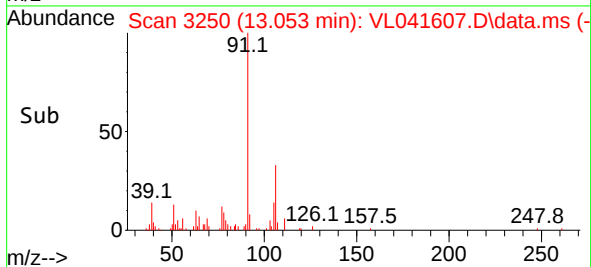
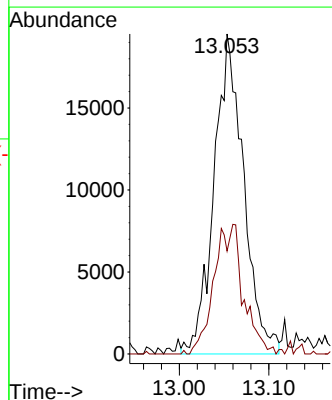
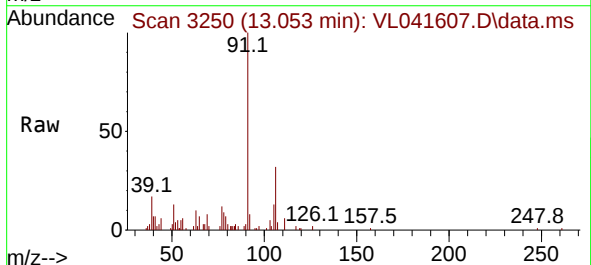
Manual Integrations
APPROVED

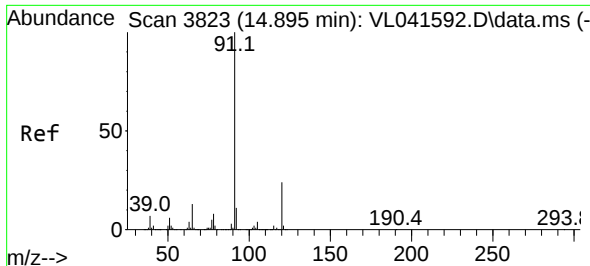
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#60
o-Xylene
Concen: 0.211 ppbv m
RT: 13.053 min Scan# 3250
Delta R.T. 0.019 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

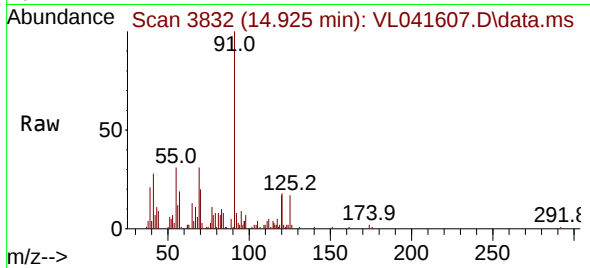
Tgt Ion: 91 Resp: 44857
Ion Ratio Lower Upper
91 100
106 41.4 23.1 69.3





#64
n-propylbenzene
Concen: 0.137 ppbv m
RT: 14.925 min Scan# 3832
Delta R.T. 0.029 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

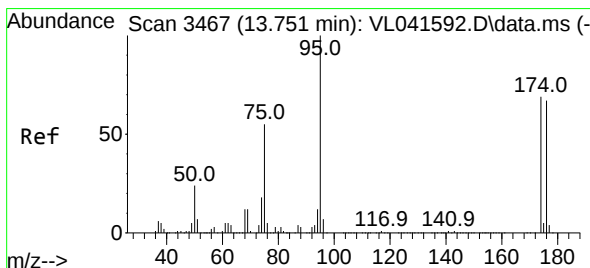
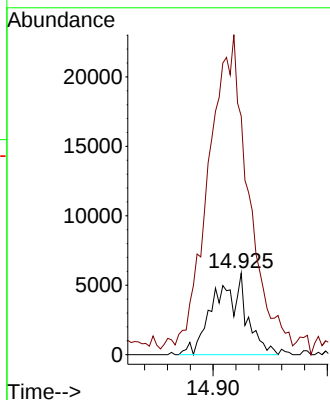
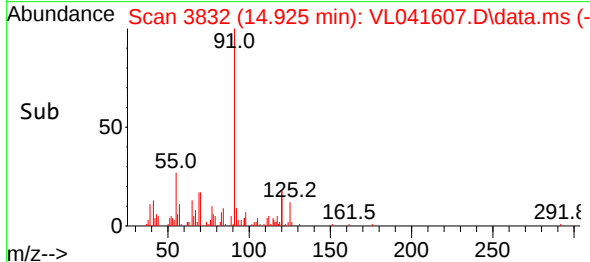
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:120 Resp: 11392
Ion Ratio Lower Upper
120 100
91 513.7 366.4 549.6

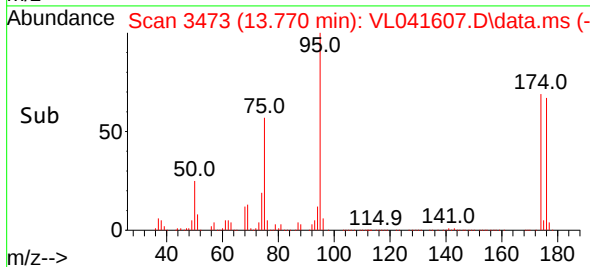
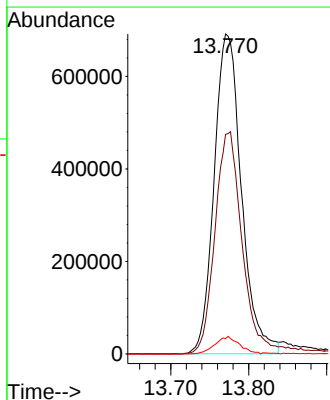
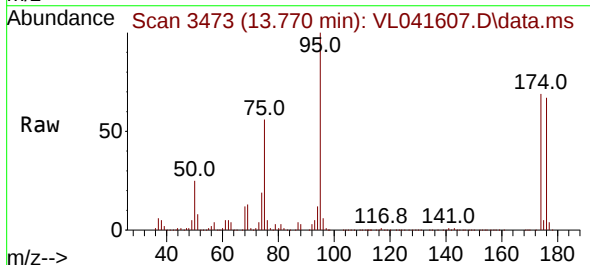
Manual Integrations
APPROVED

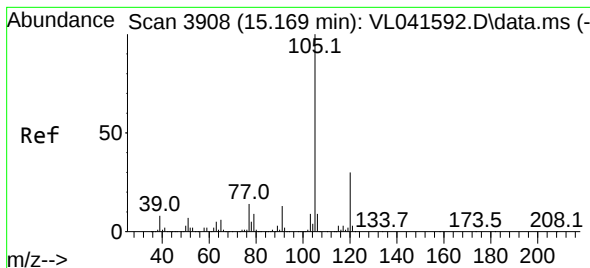
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 9.824 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. 0.019 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

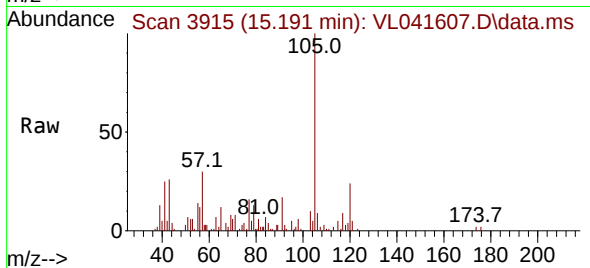
Tgt Ion: 95 Resp: 1684243
Ion Ratio Lower Upper
95 100
174 71.9 55.8 83.8
175 5.2 4.1 6.1





#72
4-Ethyltoluene
Concen: 0.201 ppbv
RT: 15.191 min Scan# 3915
Delta R.T. 0.023 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03

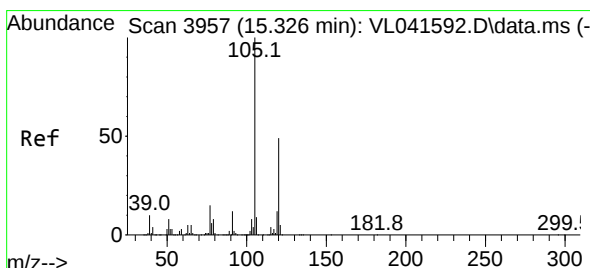
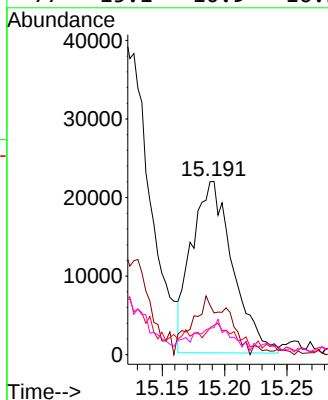
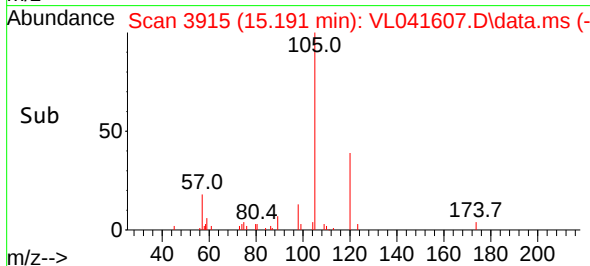
Instrument :
MSVOA_L
ClientSampleId :
IA2



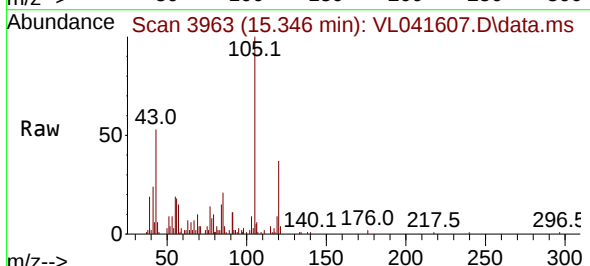
Tgt Ion:105 Resp: 49948
Ion Ratio Lower Upper
105 100
120 28.8 24.1 36.1
91 18.4 10.2 15.2
77 15.1 10.9 16.3

Manual Integrations
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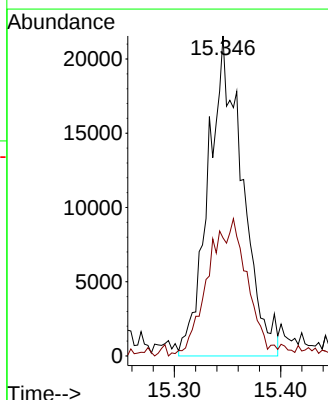
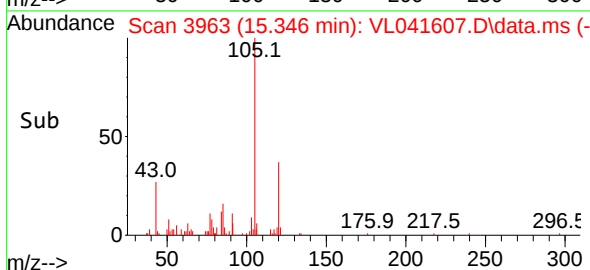
Reviewed By :Semsettin Yesilyurt 09/19/2024
Supervised By :Mahesh Dadoda 09/19/2024

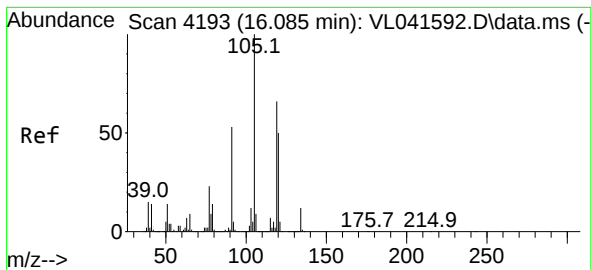


#73
1,3,5-Trimethylbenzene
Concen: 0.220 ppbv m
RT: 15.346 min Scan# 3963
Delta R.T. 0.019 min
Lab File: VL041607.D
Acq: 18 Sep 2024 15:03



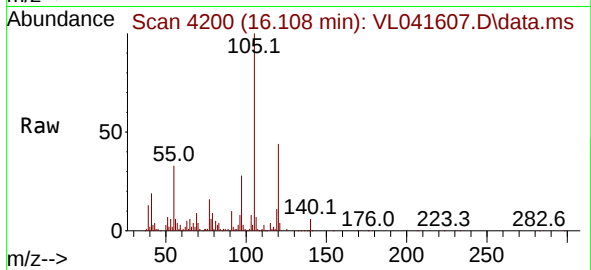
Tgt Ion:105 Resp: 48371
Ion Ratio Lower Upper
105 100
120 36.9 39.4 59.0#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.806 ppbv
 RT: 16.108 min Scan# 4193
 Delta R.T. 0.023 min
 Lab File: VL041607.D
 Acq: 18 Sep 2024 15:03

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion:	105	Resp:	20724
Ion	Ratio	Lower	Upper
105	100		
120	44.2	39.9	59.9
91	8.7	42.6	63.8
77	14.7	18.2	27.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2024
 Supervised By :Mahesh Dadoda 09/19/2024

