

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050224\
 Data File : VL041202.D
 Acq On : 2 May 2024 19:21
 Operator : SY/MD
 Sample : P2334-06DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-20-IA01-20240425DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024
 Supervised By :Mahesh Dadoda 05/07/2024

Quant Time: May 03 03:43:31 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M

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

QLast Update : Fri May 03 03:34:47 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	852250	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2147204	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	1966126	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1464859	9.869	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	46116	0.400	ppbv	94
4) Chloromethane	2.816	50	31226	0.615	ppbv #	82
9) Propene	2.710	41	79586m	1.571	ppbv	
10) Heptane	7.574	43	13595m	0.111	ppbv	
11) Trichlorofluoromethane	3.562	101	29294	0.250	ppbv	94
13) Ethanol	3.240	45	456752	40.224	ppbv	98
15) Acetone	3.468	43	946164m	9.407	ppbv	
19) Isopropyl Alcohol	3.581	45	67395m	1.021	ppbv	
20) Methylene Chloride	3.935	84	1380406	39.467	ppbv	98
26) Hexane	5.214	57	1189476	13.277	ppbv #	41
30) Cyclohexane	6.607	84	7320m	0.103	ppbv	
34) 2-Butanone	4.790	43	142340	1.302	ppbv	100
35) Carbon Tetrachloride	6.491	117	9277m	0.077	ppbv	
36) Benzene	6.369	78	34224m	0.190	ppbv	
41) Tetrahydrofuran	5.574	42	20933m	0.265	ppbv	
44) 2,2,4-Trimethylpentane	7.324	57	32348m	0.104	ppbv	
52) Tetrachloroethene	10.619	164	4918m	0.078	ppbv	
53) Toluene	9.221	91	268692	1.286	ppbv	100
58) Ethyl Benzene	12.082	91	26980m	0.100	ppbv	
59) m/p-Xylene	12.352	91	69573m	0.307	ppbv	
60) o-Xylene	13.056	91	23244m	0.109	ppbv	
61) Styrene	12.896	104	19574m	0.174	ppbv	
74) 1,2,4-Trimethylbenzene	16.117	105	25687m	0.108	ppbv	

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

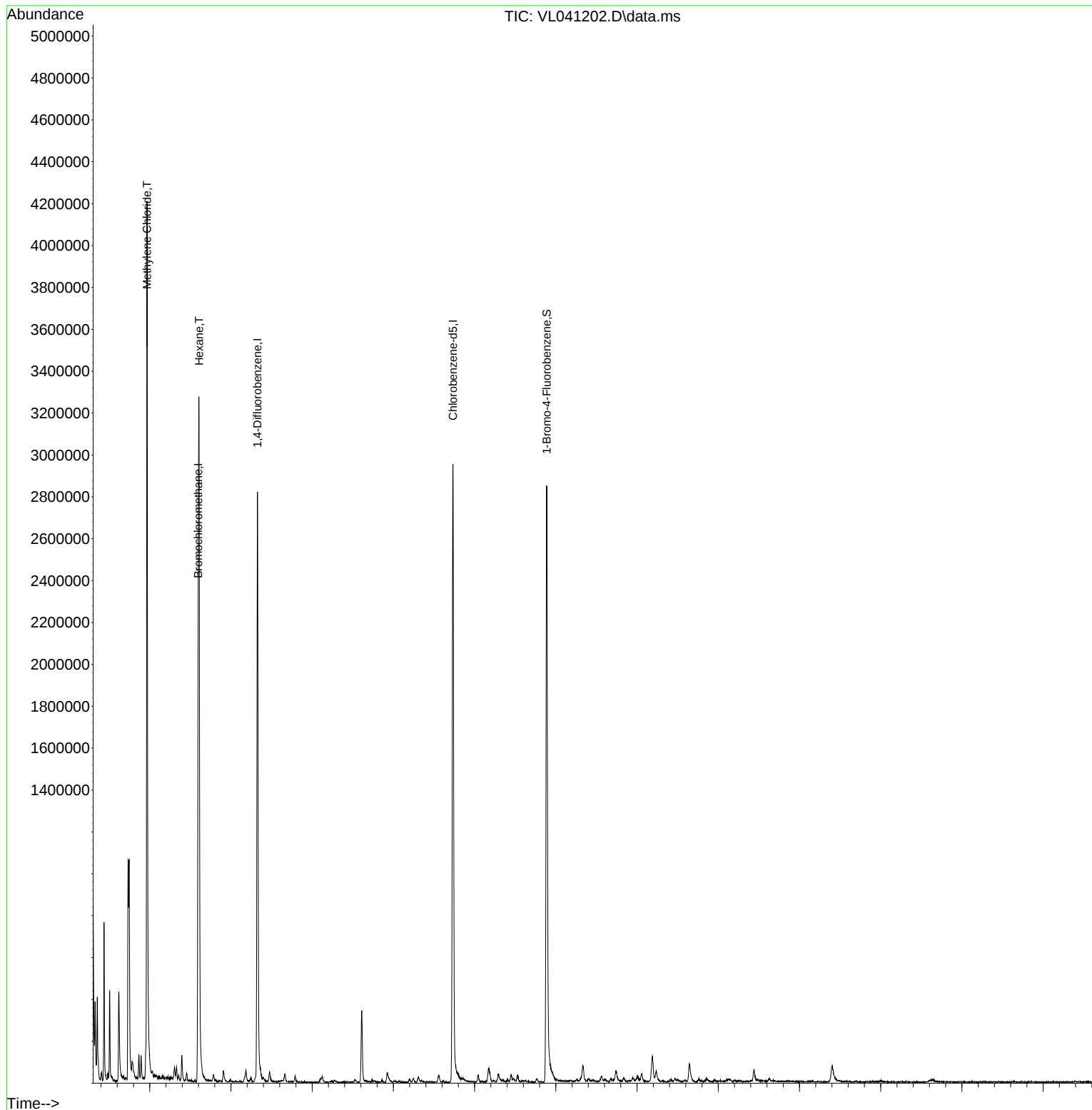
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050224\
Data File : VL041202.D
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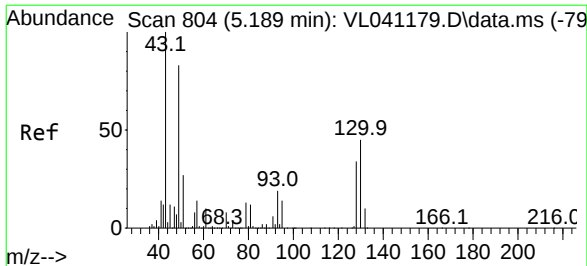
Instrument :
MSVOA_L
ClientSampleId :
BA-20-IA01-20240425DUP

Quant Time: May 03 03:43:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 03 03:34:47 2024
Response via : Initial Calibration

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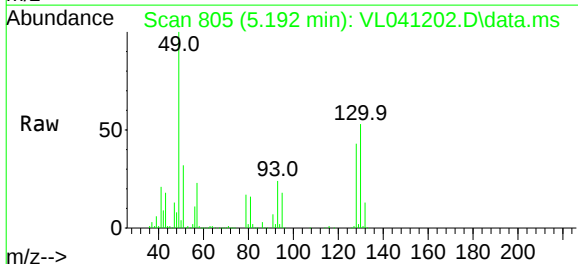
Reviewed By : Semsettin Yesilyurt 05/06/2024
Supervised By : Mahesh Dadoda 05/07/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.000 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

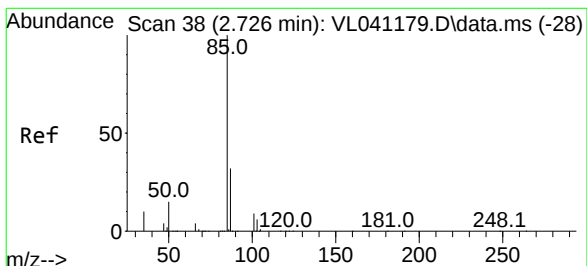
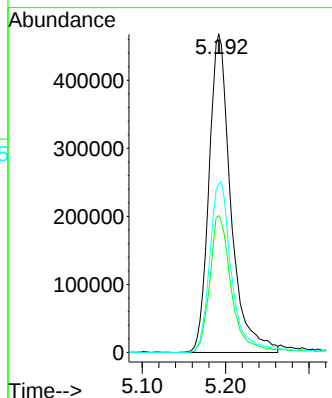
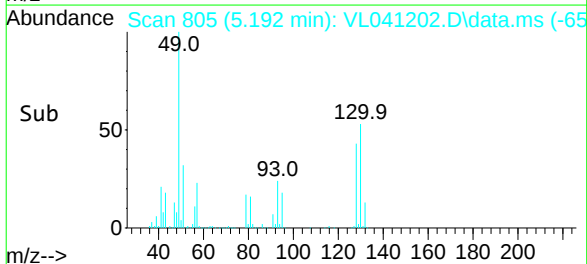
Instrument :
MSVOA_L
ClientSampleId :
BA-20-IA01-20240425DUP



Tgt Ion: 49 Resp: 852250
Ion Ratio Lower Upper
49 100
128 43.8 21.5 64.5
130 55.3 27.2 81.6

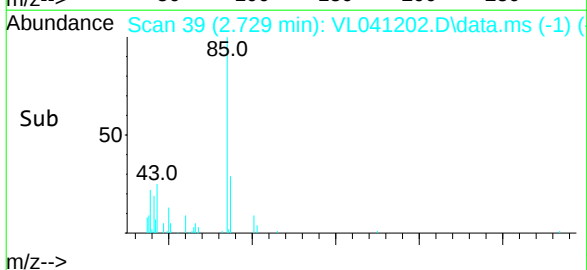
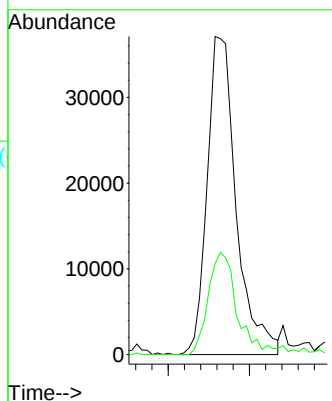
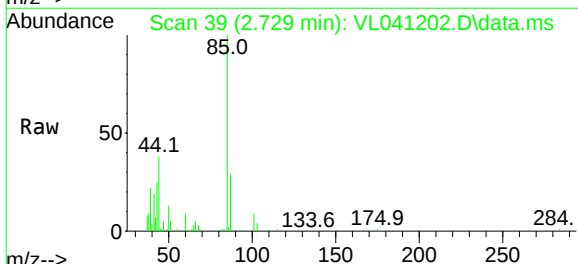
Manual Integrations
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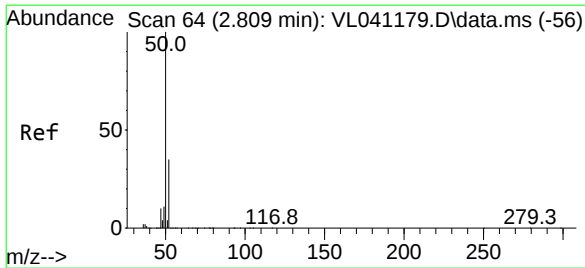
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#2
Dichlorodifluoromethane
Concen: 0.400 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.000 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

Tgt Ion: 85 Resp: 46116
Ion Ratio Lower Upper
85 100
87 28.6 25.7 38.5





#4

Chloromethane

Concen: 0.615 ppbv

RT: 2.816 min Scan# 66

Delta R.T. 0.003 min

Lab File: VL041202.D

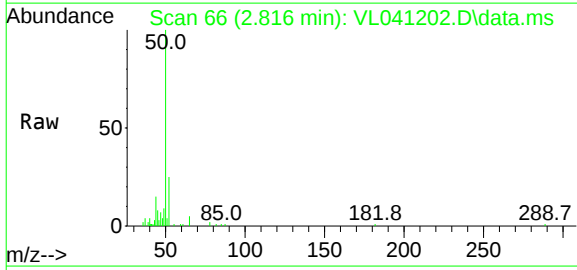
Acq: 2 May 2024 19:21

Instrument :

MSVOA_L

ClientSampleId :

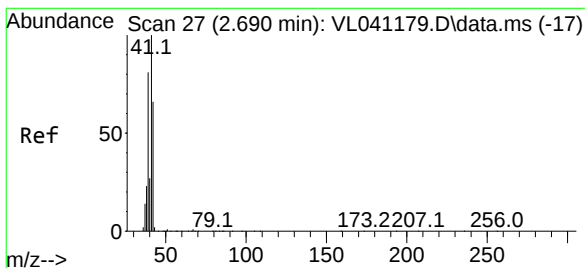
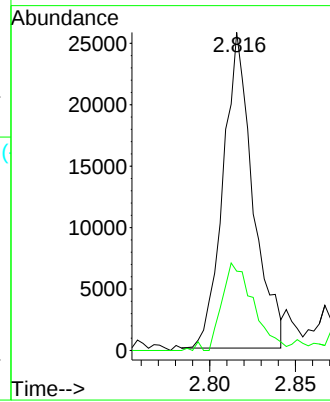
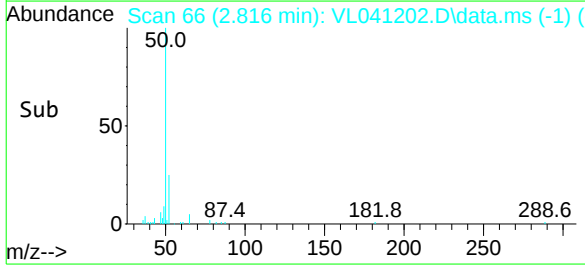
BA-20-IA01-20240425DUP



Tgt Ion:	50	Resp:	31226
Ion	Ratio	Lower	Upper
50	100		
52	25.1	28.3	42.5#

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#9

Propene

Concen: 1.571 ppbv m

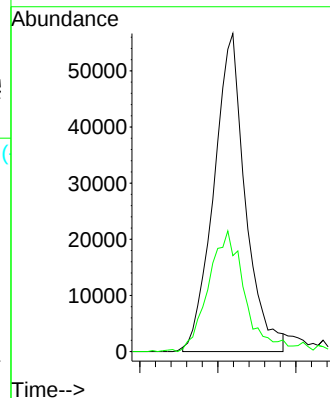
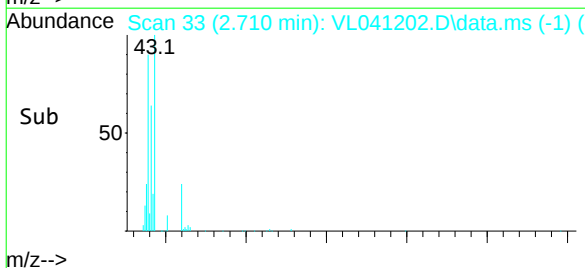
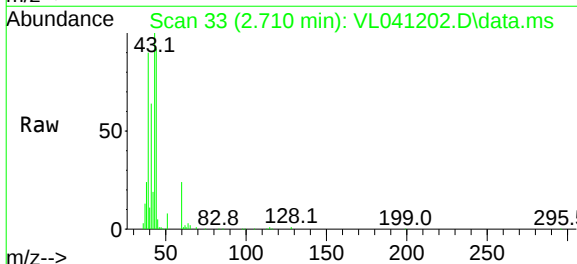
RT: 2.710 min Scan# 33

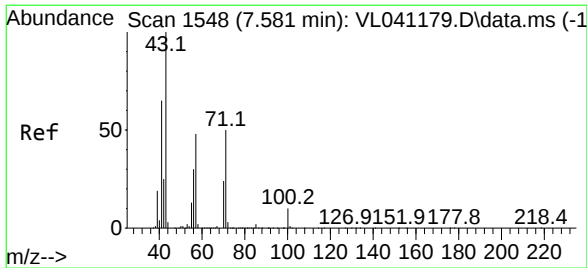
Delta R.T. 0.016 min

Lab File: VL041202.D

Acq: 2 May 2024 19:21

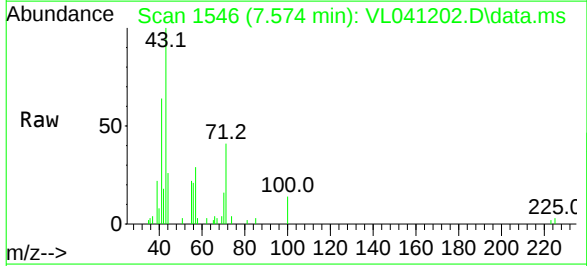
Tgt Ion:	41	Resp:	79586
Ion	Ratio	Lower	Upper
41	100		
42	168.6	55.3	82.9#





#10
Heptane
Concen: 0.111 ppbv m
RT: 7.574 min Scan# 15
Delta R.T. -0.006 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

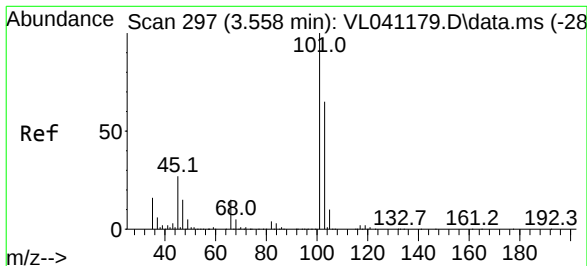
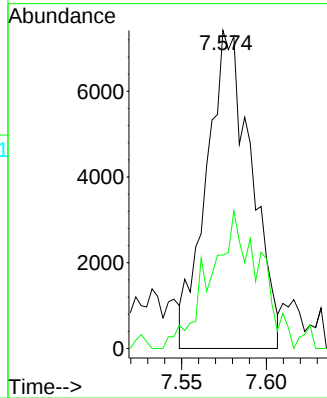
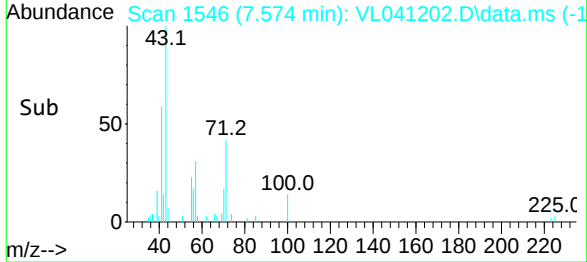
Instrument :
MSVOA_L
ClientSampleId :
BA-20-IA01-20240425DUP



Tgt Ion: 43 Resp: 13595
Ion Ratio Lower Upper
43 100
57 49.0 38.7 58.1

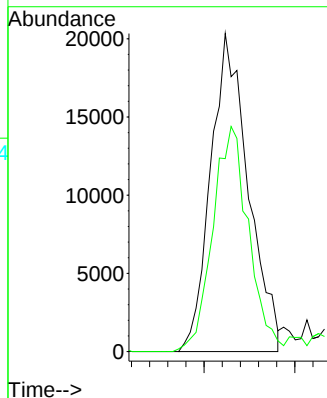
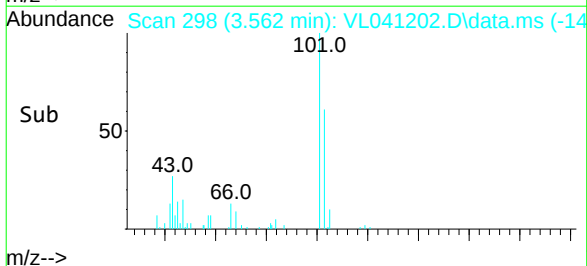
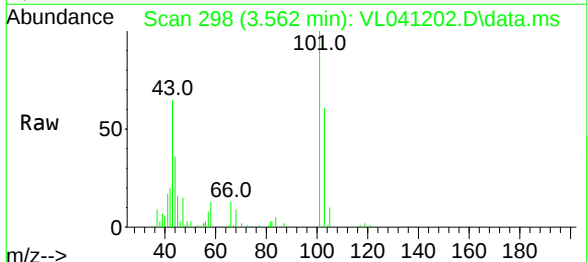
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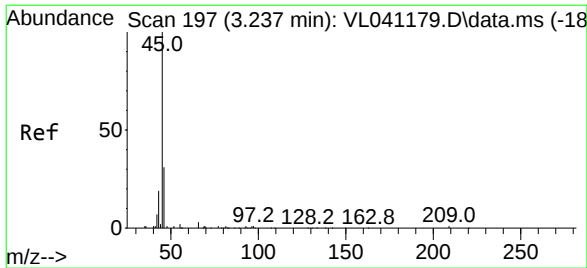
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#11
Trichlorofluoromethane
Concen: 0.250 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.003 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

Tgt Ion:101 Resp: 29294
Ion Ratio Lower Upper
101 100
103 59.8 51.6 77.4





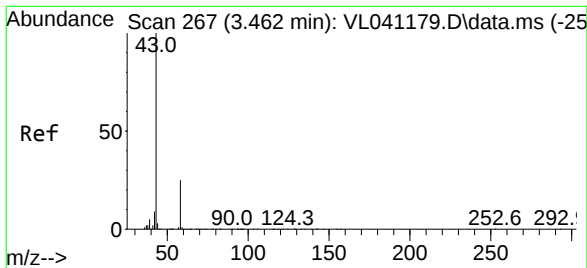
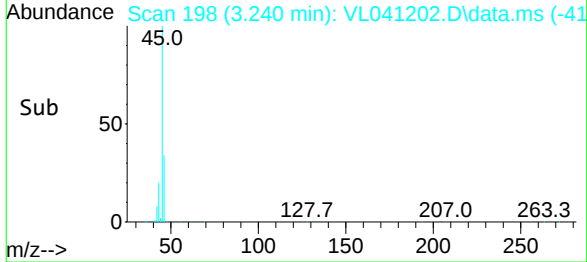
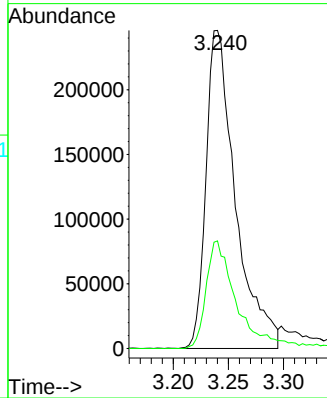
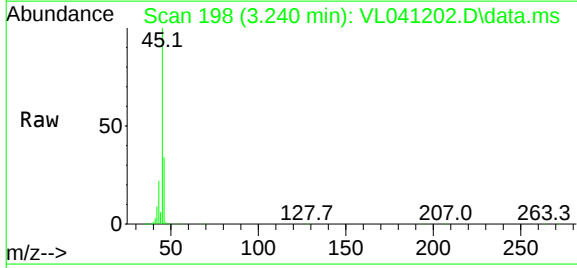
#13
Ethanol
Concen: 40.224 ppbv
RT: 3.240 min Scan# 197
Delta R.T. 0.003 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

Instrument :
MSVOA_L
ClientSampleId :
BA-20-IA01-20240425DUP

Tgt Ion: 45 Resp: 456752
Ion Ratio Lower Upper
45 100
46 35.4 14.8 59.0

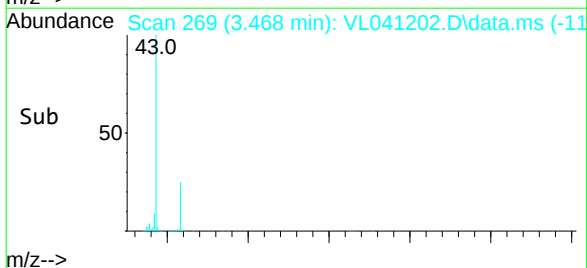
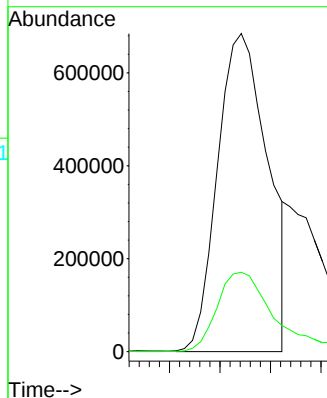
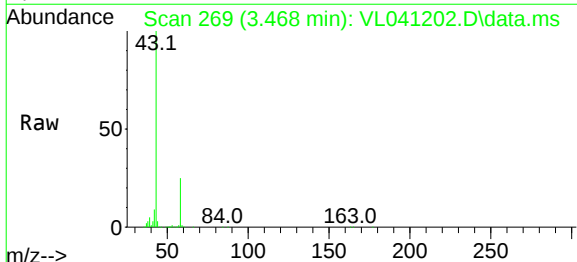
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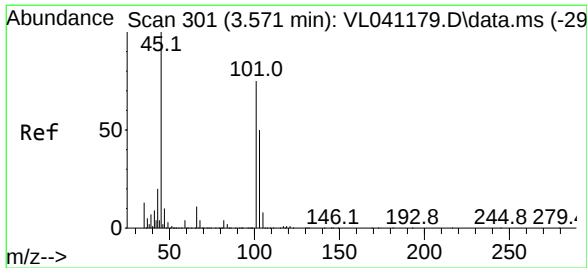
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#15
Acetone
Concen: 9.407 ppbv m
RT: 3.468 min Scan# 269
Delta R.T. 0.003 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

Tgt Ion: 43 Resp: 946164
Ion Ratio Lower Upper
43 100
58 31.1 21.4 32.0





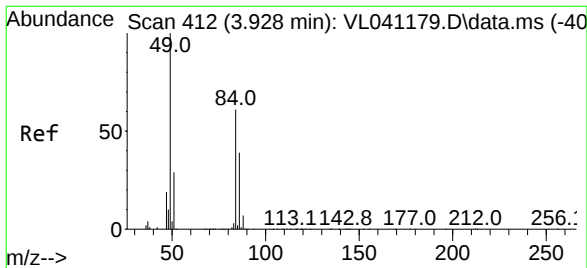
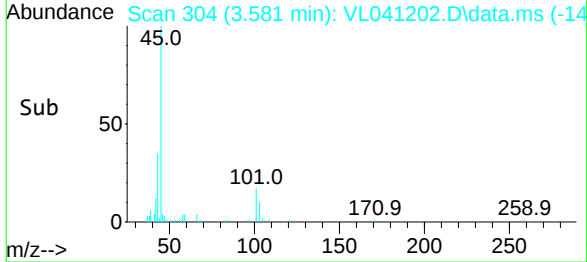
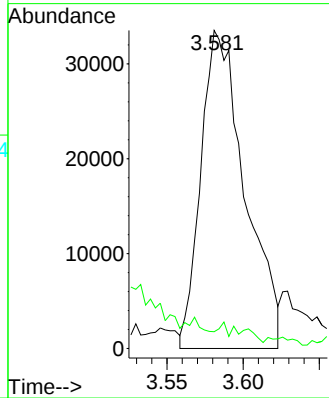
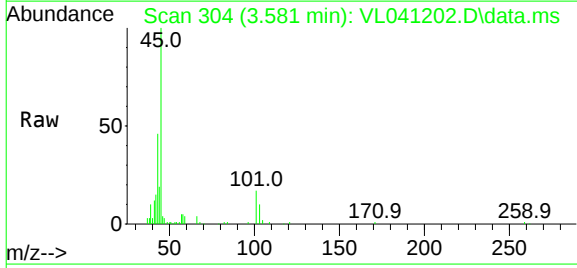
#19
Isopropyl Alcohol
Concen: 1.021 ppbv m
RT: 3.581 min Scan# 301
Delta R.T. 0.010 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

Instrument : MSVOA_L
ClientSampleId : BA-20-IA01-20240425DUP

Tgt Ion: 45 Resp: 67395
Ion Ratio Lower Upper
45 100
58 0.0 26.8 40.2#

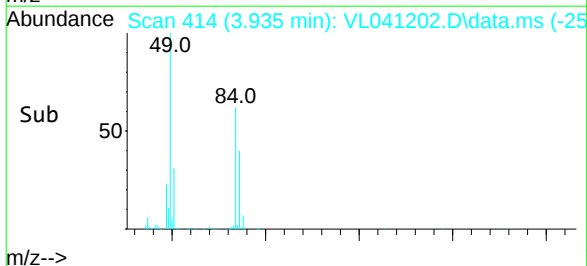
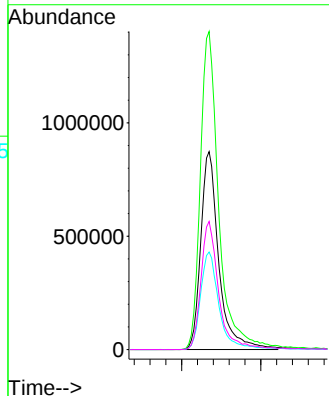
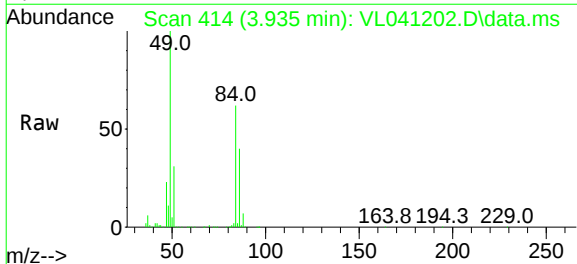
Manual Integrations
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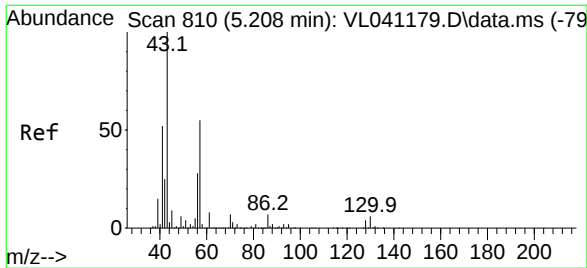
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#20
Methylene Chloride
Concen: 39.467 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.003 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

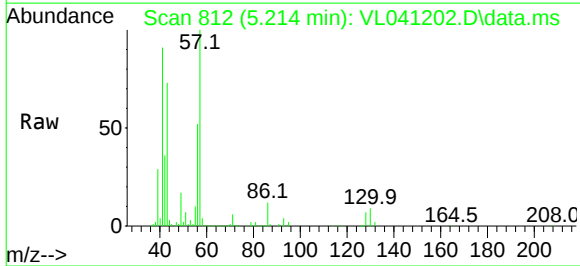
Tgt Ion: 84 Resp: 1380406
Ion Ratio Lower Upper
84 100
49 160.7 130.4 195.6
51 49.3 38.0 57.0
86 64.8 50.3 75.5





#26
Hexane
Concen: 13.277 ppbv
RT: 5.214 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

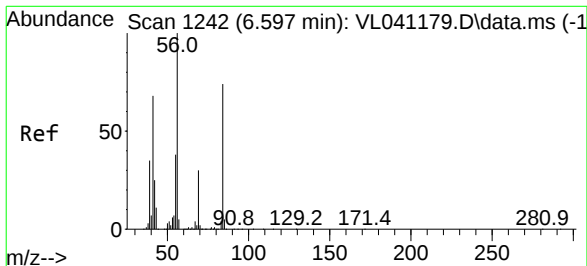
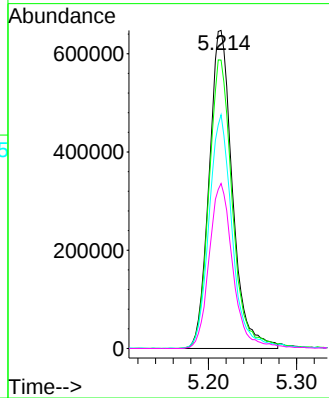
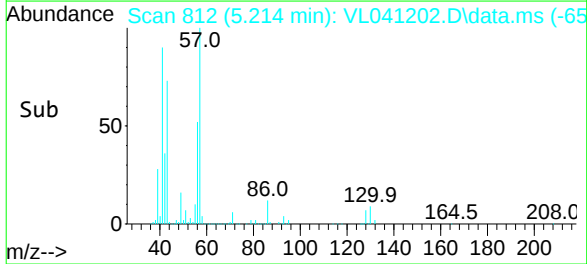
Instrument :
MSVOA_L
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BA-20-IA01-20240425DUP



Tgt Ion: 57 Resp: 1189476
Ion Ratio Lower Upper
57 100
41 92.1 75.8 113.8
43 73.5 187.0 280.4#
56 53.1 42.7 64.1

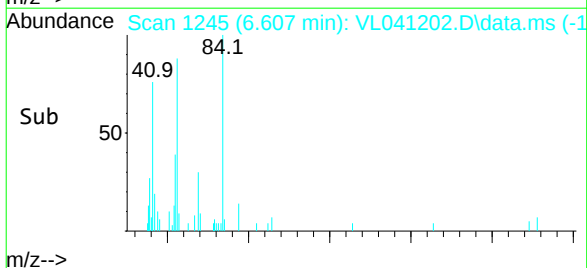
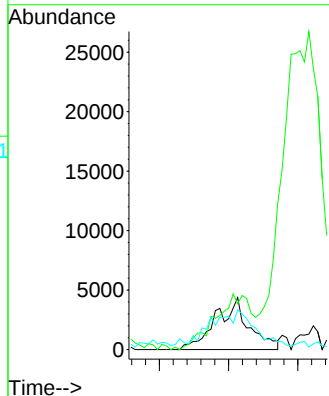
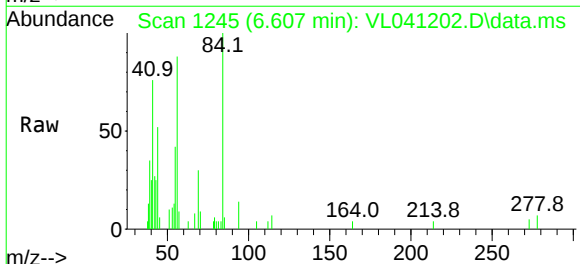
Manual Integrations
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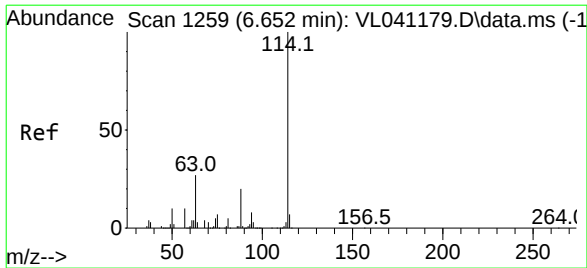
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#30
Cyclohexane
Concen: 0.103 ppbv m
RT: 6.607 min Scan# 1245
Delta R.T. 0.007 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

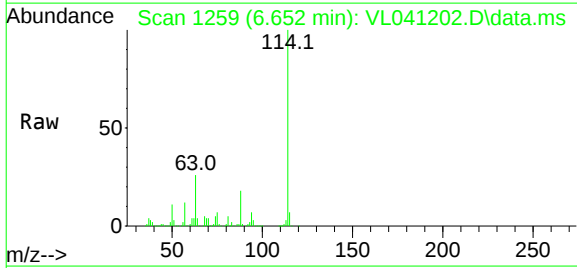
Tgt Ion: 84 Resp: 7320
Ion Ratio Lower Upper
84 100
56 0.0 116.8 175.2#
41 0.0 73.8 110.8#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

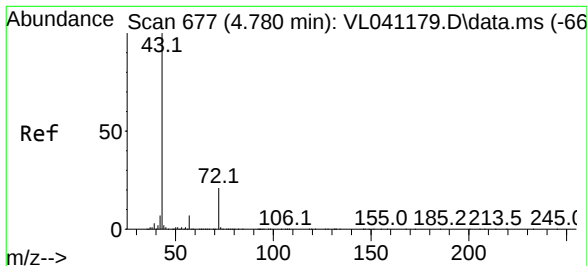
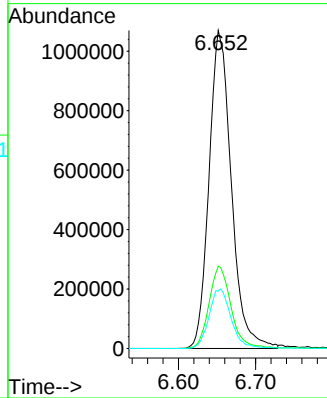
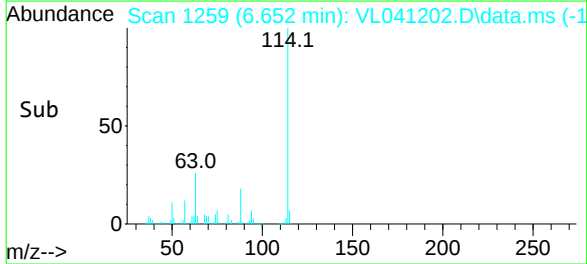
Instrument : MSVOA_L
ClientSampleId : BA-20-IA01-20240425DUP



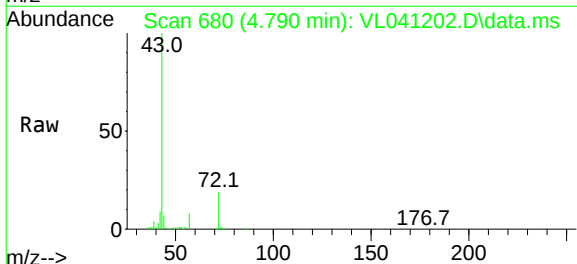
Tgt Ion:114 Resp: 2147204
Ion Ratio Lower Upper
114 100
63 25.9 21.8 32.6
88 18.7 15.2 22.8

Manual Integrations
APPROVED

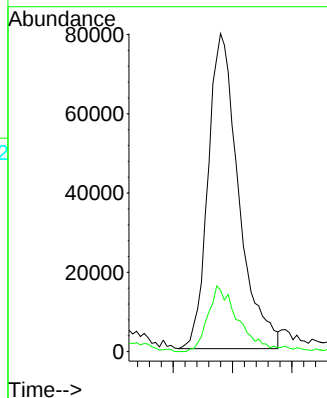
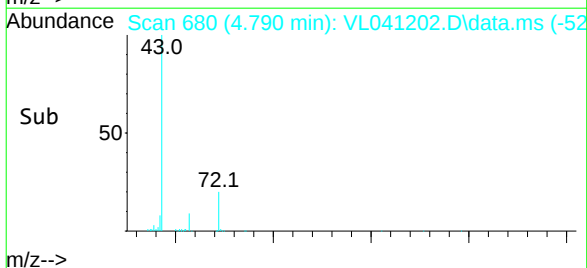
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024

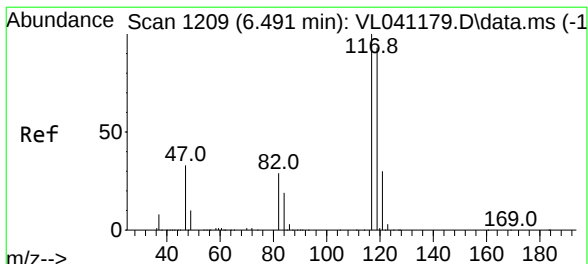


#34
2-Butanone
Concen: 1.302 ppbv
RT: 4.790 min Scan# 680
Delta R.T. 0.007 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21



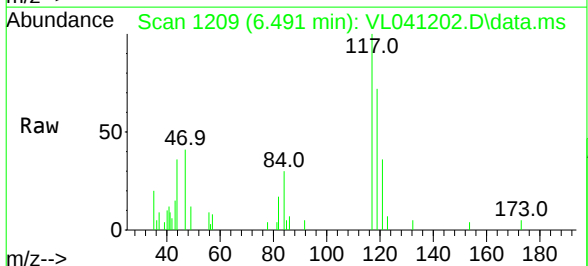
Tgt Ion: 43 Resp: 142340
Ion Ratio Lower Upper
43 100
72 21.4 17.3 25.9





#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 6.491 min Scan# 1209
Delta R.T. 0.000 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

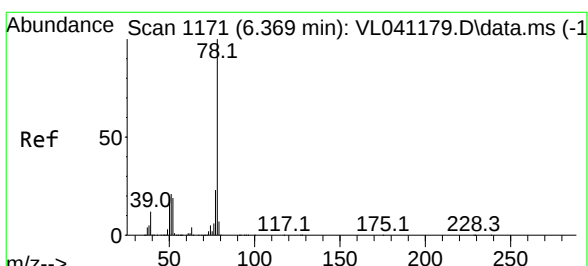
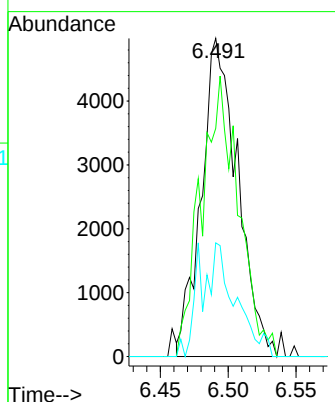
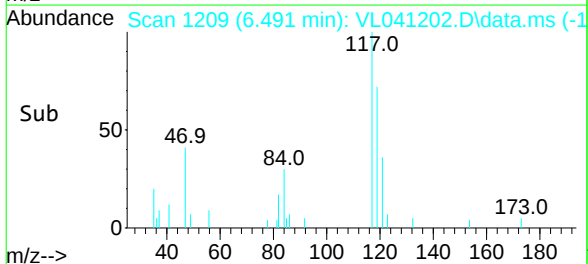
Instrument : MSVOA_L
ClientSampleId : BA-20-IA01-20240425DUP



Tgt Ion:	117	Resp:	9277
Ion	Ratio	Lower	Upper
117	100		
119	71.7	74.3	111.5
121	35.7	23.8	35.8

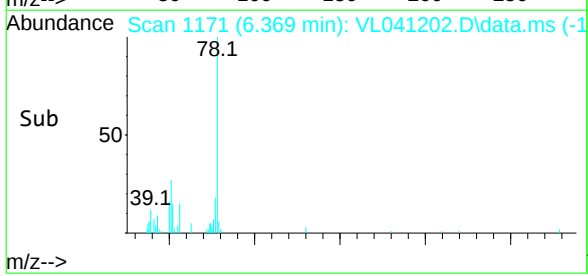
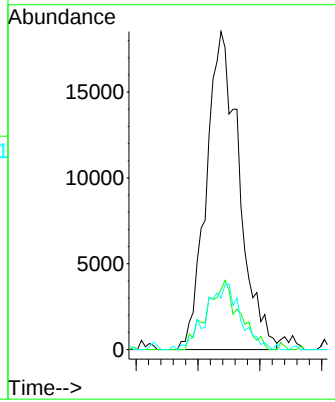
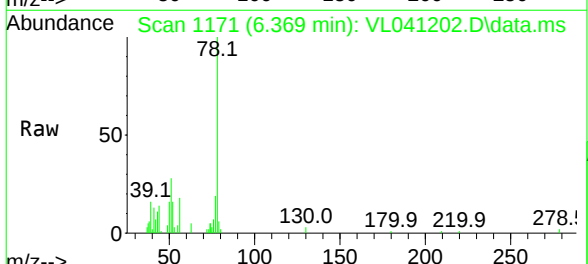
Manual Integrations
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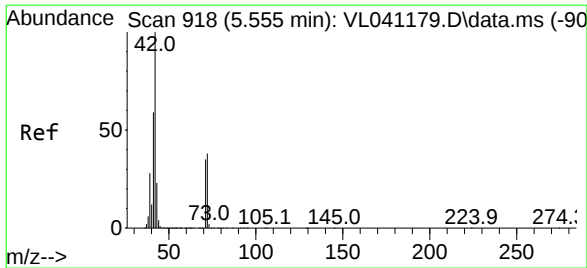
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#36
Benzene
Concen: 0.190 ppbv m
RT: 6.369 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

Tgt Ion:	78	Resp:	34224
Ion	Ratio	Lower	Upper
78	100		
77	18.9	18.3	27.5
50	16.2	15.9	23.9





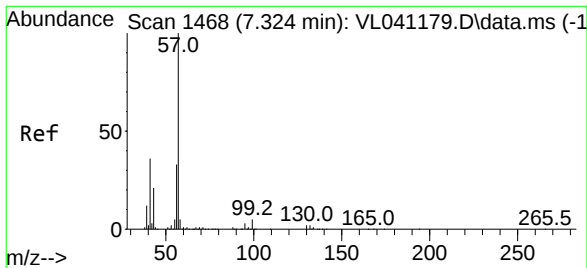
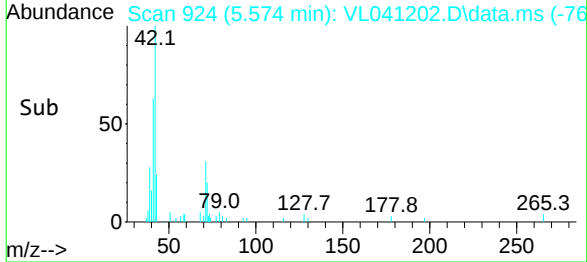
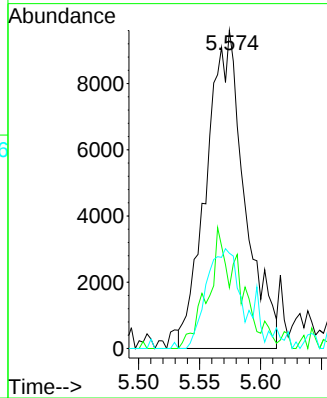
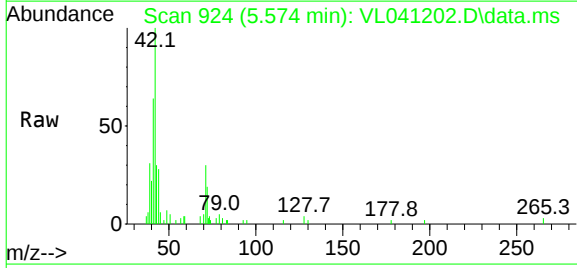
#41
Tetrahydrofuran
Concen: 0.265 ppbv m
RT: 5.574 min Scan# 92
Delta R.T. 0.023 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

Instrument :
MSVOA_L
ClientSampleId :
BA-20-IA01-20240425DUP

Tgt Ion	Ratio	Lower	Upper
42	100		
72	33.4	29.4	44.0
71	0.0	29.1	43.7

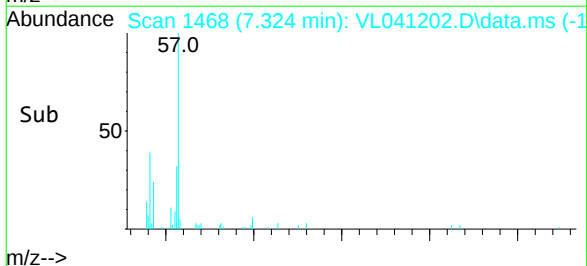
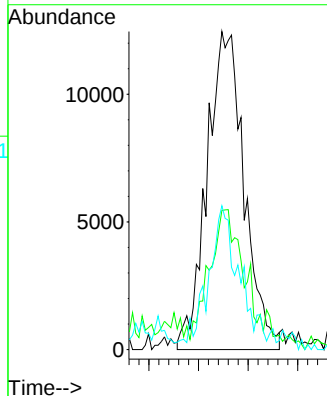
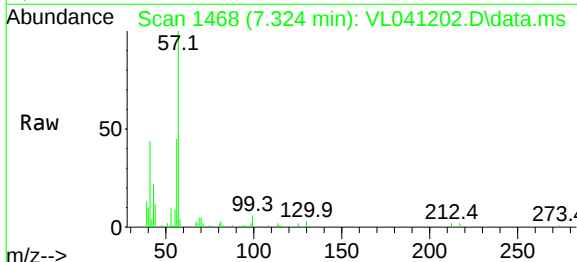
Manual Integrations
APPROVED

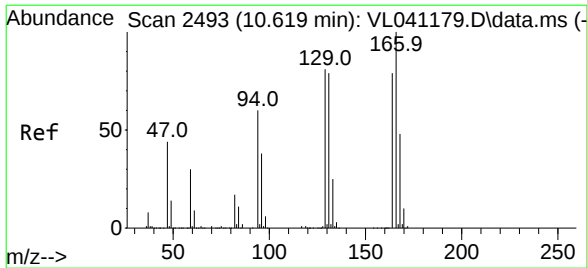
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#44
2,2,4-Trimethylpentane
Concen: 0.104 ppbv m
RT: 7.324 min Scan# 1468
Delta R.T. -0.003 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	29.5	44.3
56	37.3	25.3	37.9





#52

Tetrachloroethene

Concen: 0.078 ppbv m

RT: 10.619 min Scan# 2493

Delta R.T. 0.007 min

Lab File: VL041202.D

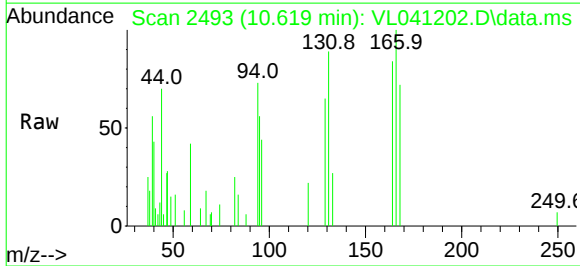
Acq: 2 May 2024 19:21

Instrument :

MSVOA_L

ClientSampleId :

BA-20-IA01-20240425DUP



Tgt Ion: 164 Resp: 4918

Ion Ratio Lower Upper

164 100

166 118.7 101.1 151.7

129 77.4 81.7 122.5

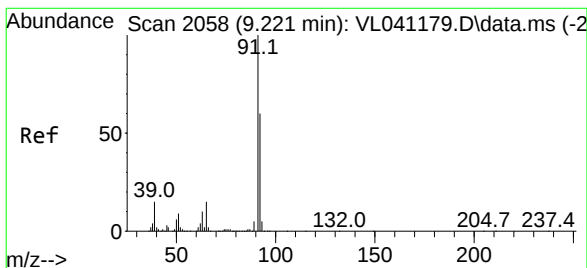
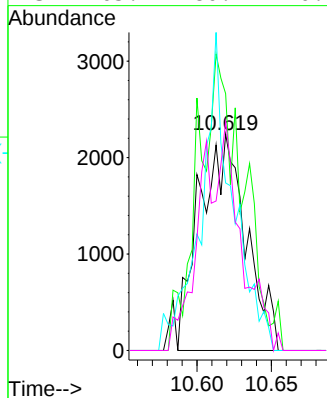
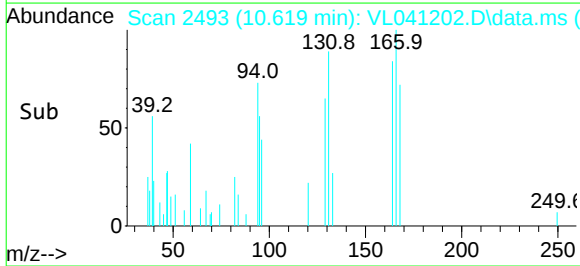
131 105.7 80.4 120.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 05/06/2024

Supervised By :Mahesh Dadoda 05/07/2024



#53

Toluene

Concen: 1.286 ppbv

RT: 9.221 min Scan# 2058

Delta R.T. 0.000 min

Lab File: VL041202.D

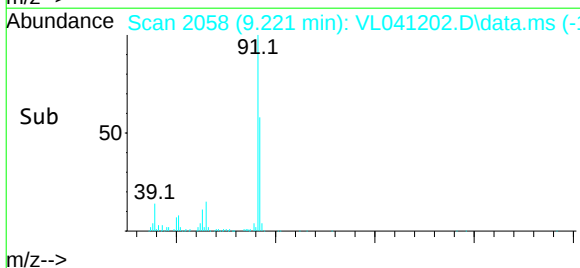
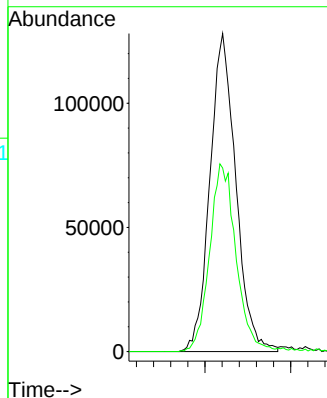
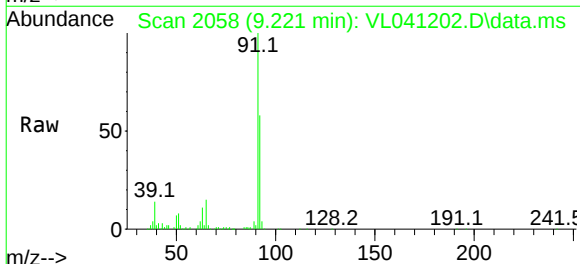
Acq: 2 May 2024 19:21

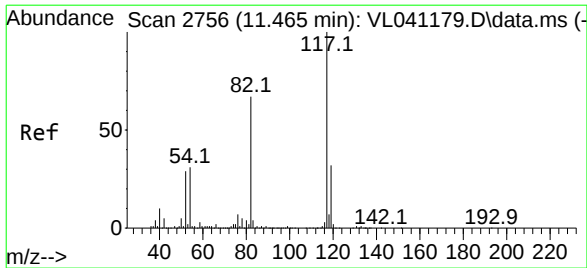
Tgt Ion: 91 Resp: 268692

Ion Ratio Lower Upper

91 100

92 60.7 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 27

Delta R.T. 0.003 min

Lab File: VL041202.D

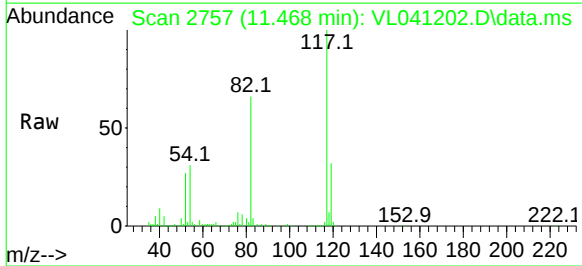
Acq: 2 May 2024 19:21

Instrument :

MSVOA_L

ClientSampleId :

BA-20-IA01-20240425DUP

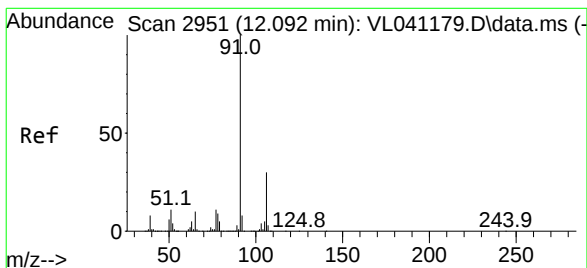
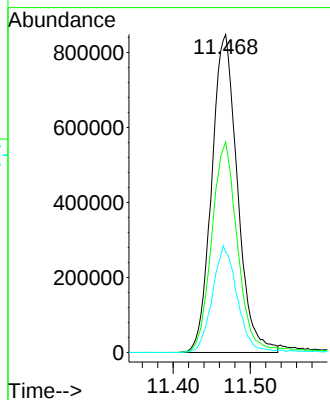
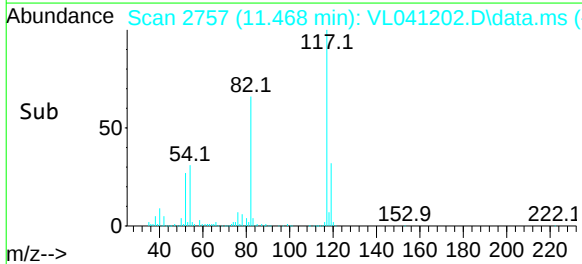


Tgt Ion: 117 Resp: 1966126

Ion	Ratio	Lower	Upper
117	100		
82	67.7	53.6	80.4
119	33.0	27.2	40.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#58

Ethyl Benzene

Concen: 0.100 ppbv m

RT: 12.082 min Scan# 2948

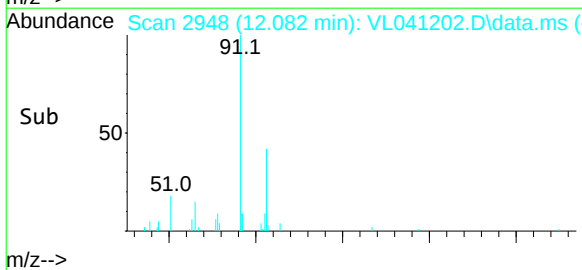
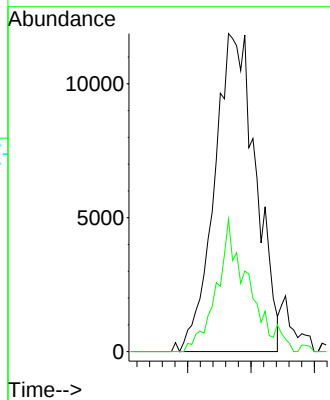
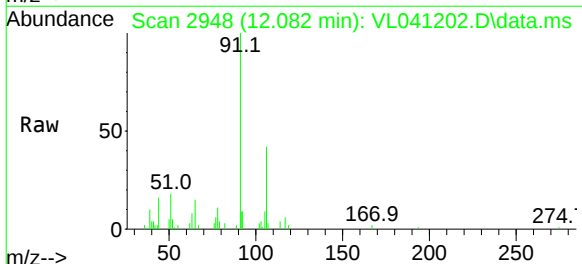
Delta R.T. -0.003 min

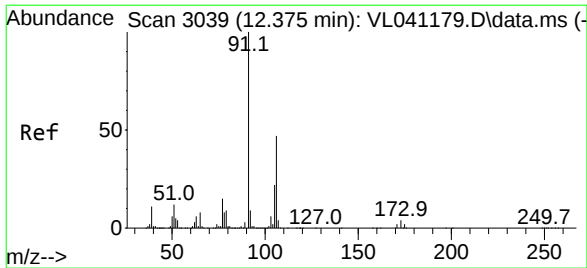
Lab File: VL041202.D

Acq: 2 May 2024 19:21

Tgt Ion: 91 Resp: 26980

Ion	Ratio	Lower	Upper
91	100		
106	41.6	24.3	36.5





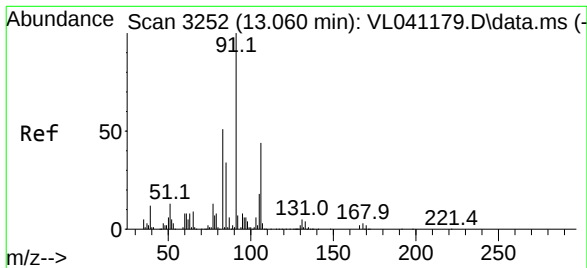
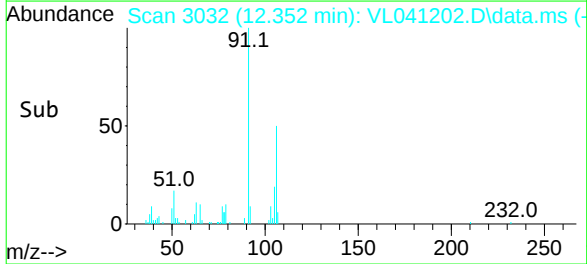
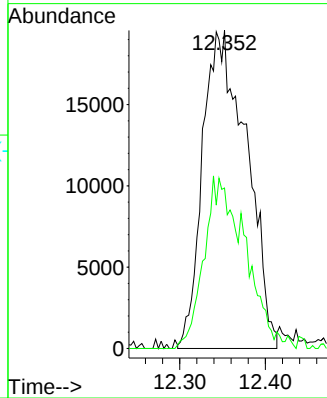
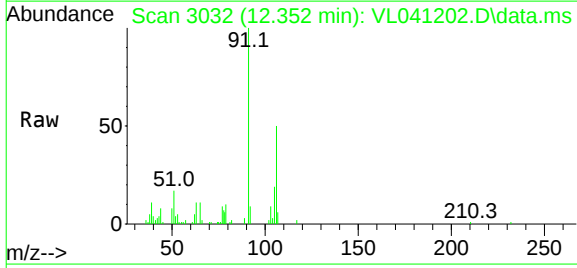
#59
m/p-Xylene
Concen: 0.307 ppbv m
RT: 12.352 min Scan# 3039
Delta R.T. -0.019 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

Instrument : MSVOA_L
ClientSampleId : BA-20-IA01-20240425DUP

Tgt Ion: 91 Resp: 69573
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#

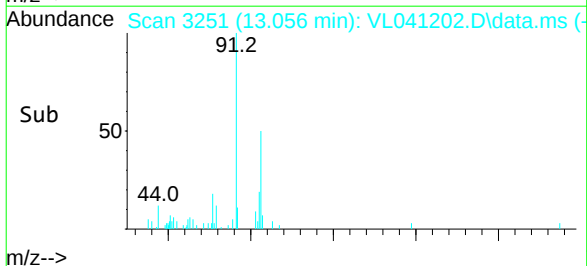
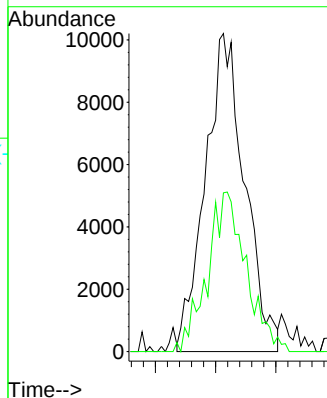
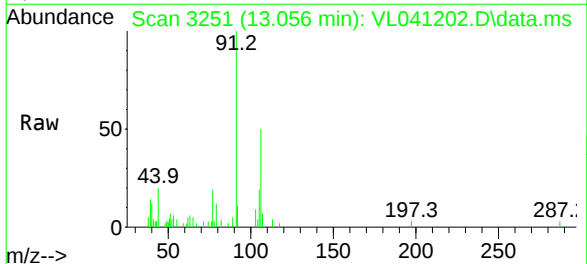
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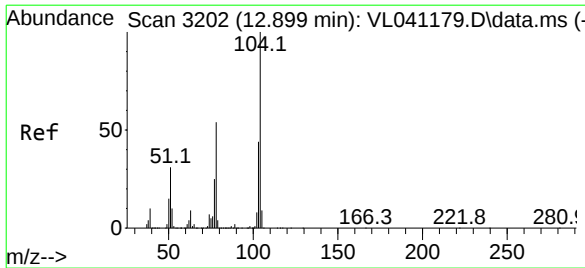
Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#60
o-Xylene
Concen: 0.109 ppbv m
RT: 13.056 min Scan# 3251
Delta R.T. 0.000 min
Lab File: VL041202.D
Acq: 2 May 2024 19:21

Tgt Ion: 91 Resp: 23244
Ion Ratio Lower Upper
91 100
106 49.0 22.4 67.3





#61

Styrene

Concen: 0.174 ppbv m

RT: 12.896 min Scan# 3202

Delta R.T. 0.000 min

Lab File: VL041202.D

Acq: 2 May 2024 19:21

Instrument :

MSVOA_L

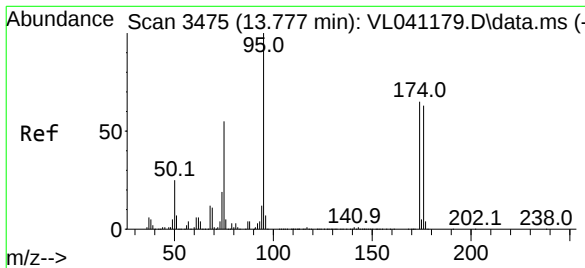
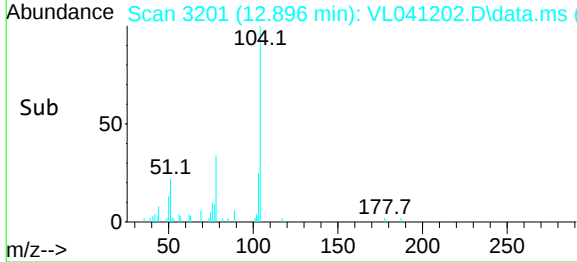
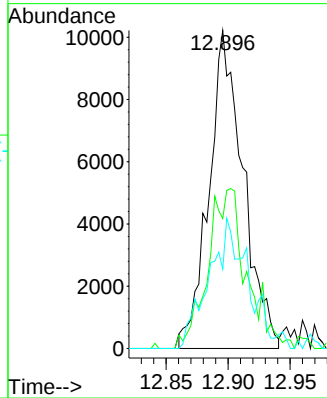
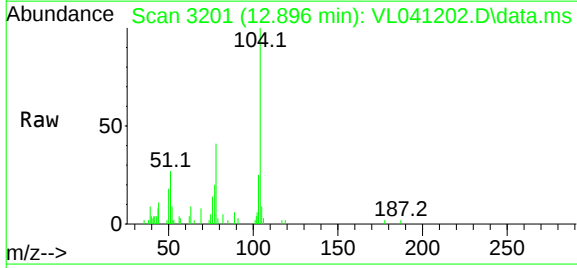
ClientSampleId :

BA-20-IA01-20240425DUP

Tgt Ion:	104	Resp:	19574
Ion Ratio	Lower	Upper	
104	100		
78	60.3	42.6	63.8
103	47.3	38.4	57.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/06/2024
Supervised By :Mahesh Dadoda 05/07/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 9.869 ppbv

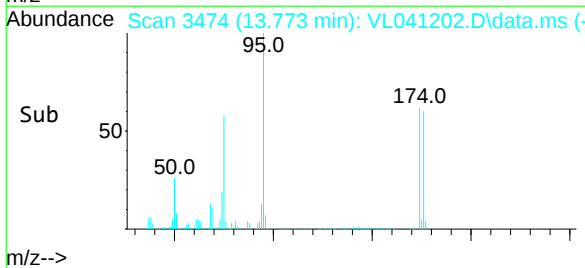
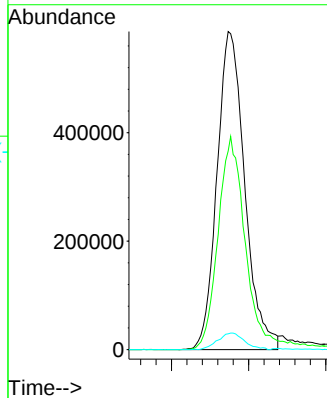
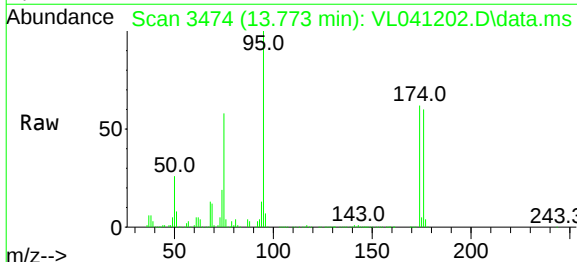
RT: 13.773 min Scan# 3474

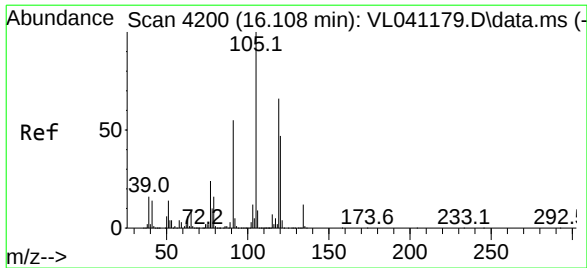
Delta R.T. 0.000 min

Lab File: VL041202.D

Acq: 2 May 2024 19:21

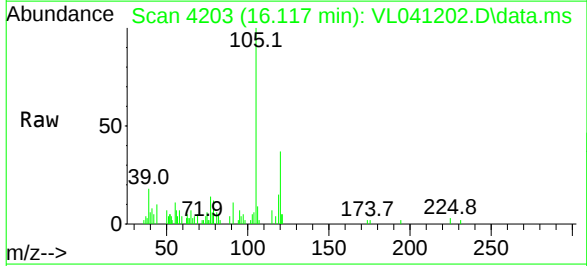
Tgt Ion:	95	Resp:	1464859
Ion Ratio	Lower	Upper	
95	100		
174	68.5	53.6	80.4
175	5.3	4.2	6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.108 ppbv m
 RT: 16.117 min Scan# 42
 Delta R.T. 0.013 min
 Lab File: VL041202.D
 Acq: 2 May 2024 19:21

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-20-IA01-20240425DUP



Tgt	Ion:	105	Resp:	25687
Ion	Ratio	Lower	Upper	
105	100			
120	37.0	37.8	56.6#	
91	10.5	44.3	66.5#	
77	13.6	19.0	28.4#	

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/06/2024
 Supervised By :Mahesh Dadoda 05/07/2024

