

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041449.D
 Acq On : 30 Jul 2024 4:34
 Operator : SY/MD
 Sample : P3342-13
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ACVI-AA01

Manual Integrations
 APPROVED

Reviewed By : Mahesh Dadoda 07/30/2024
 Supervised By : Semsettin Yesilyurt 07/30/2024

Quant Time: Jul 30 06:48:38 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M

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

QLast Update : Tue Jul 30 02:42:20 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	1033788	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.655	114	2817453	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2586347	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1968173	9.889	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.735	85	44360	0.249	ppbv	98
3) Chlorodifluoromethane	2.684	51	33766m	0.274	ppbv	
4) Chloromethane	2.822	50	41719	0.637	ppbv #	87
9) Propene	2.713	41	64366m	1.139	ppbv	
10) Heptane	7.577	43	404504	3.184	ppbv	96
11) Trichlorofluoromethane	3.571	101	33498	0.212	ppbv	89
13) Ethanol	3.243	45	1037156	205.258	ppbv	97
15) Acetone	3.475	43	503881m	4.290	ppbv	
19) Isopropyl Alcohol	3.584	45	719382	10.476	ppbv	100
20) Methylene Chloride	3.938	84	275973	6.301	ppbv	98
26) Hexane	5.214	57	1403553	14.499	ppbv #	43
30) Cyclohexane	6.603	84	80933	1.027	ppbv	92
34) 2-Butanone	4.793	43	160813	1.180	ppbv	96
35) Carbon Tetrachloride	6.503	117	8497m	0.055	ppbv	
36) Benzene	6.372	78	592841	2.880	ppbv	98
44) 2,2,4-Trimethylpentane	7.330	57	1007431	2.930	ppbv #	86
52) Tetrachloroethene	10.609	164	9070m	0.114	ppbv	
53) Toluene	9.224	91	3975844	17.338	ppbv	99
58) Ethyl Benzene	12.085	91	867395	2.910	ppbv	94
59) m/p-Xylene	12.339	91	1330756	5.171	ppbv	96
60) o-Xylene	13.060	91	494903	2.033	ppbv	99
61) Styrene	12.896	104	402060	3.661	ppbv	98
62) Isopropylbenzene	14.027	105	45355	0.123	ppbv	95
64) n-propylbenzene	14.921	120	10836m	0.112	ppbv	
72) 4-Ethyltoluene	15.191	105	54118m	0.189	ppbv	
73) 1,3,5-Trimethylbenzene	15.358	105	27816	0.113	ppbv #	85
74) 1,2,4-Trimethylbenzene	16.111	105	116377m	0.405	ppbv	

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

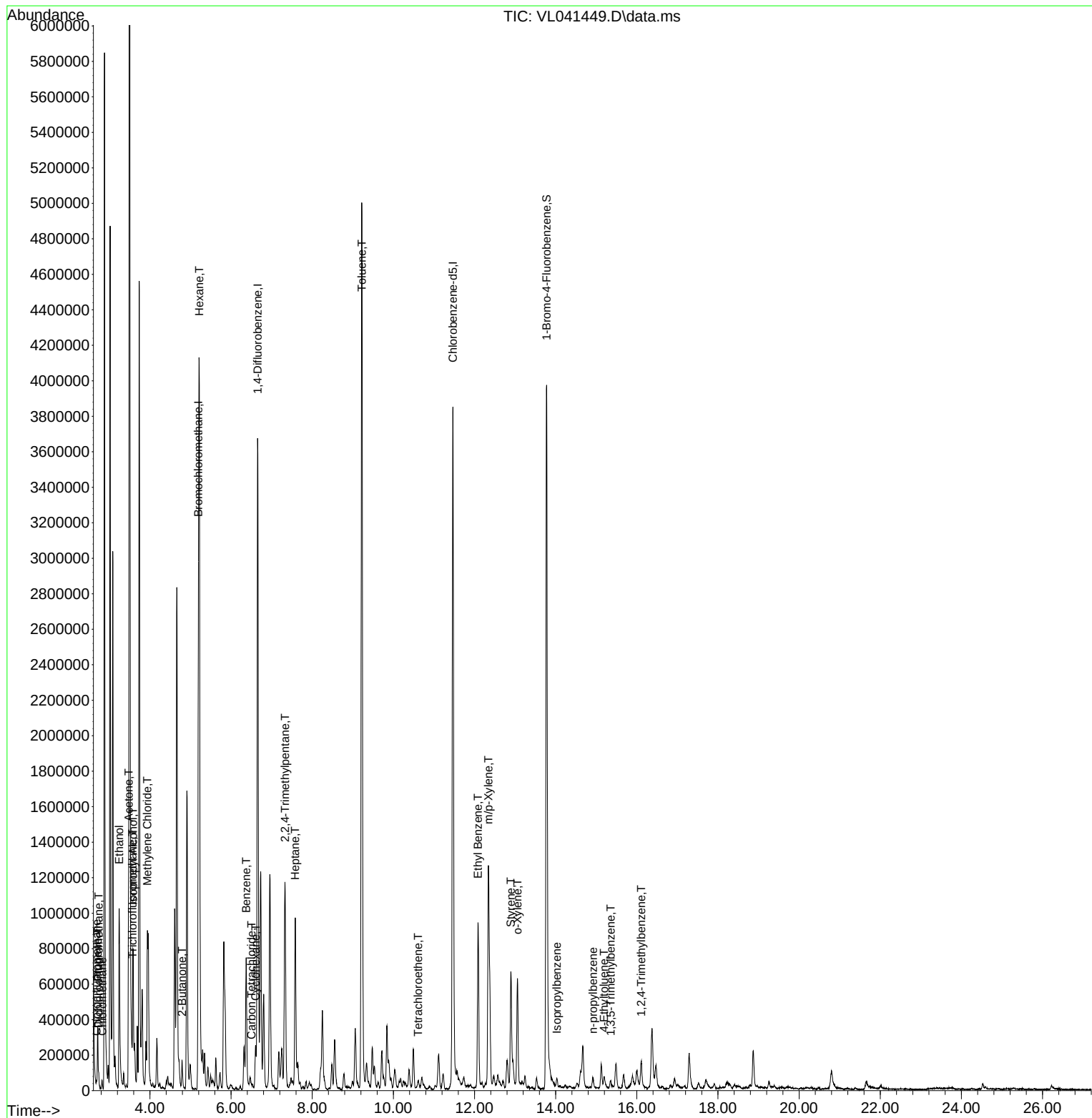
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
Data File : VL041449.D
Acq On : 30 Jul 2024 4:34
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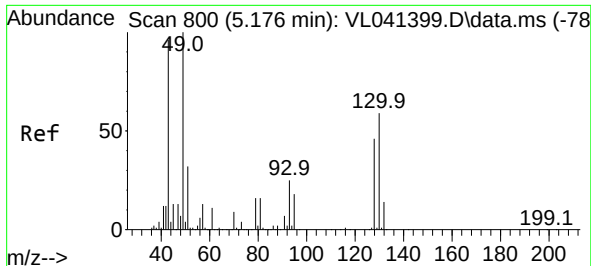
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01

Quant Time: Jul 30 06:48:38 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jul 30 02:42:20 2024
Response via : Initial Calibration

Manual Integrations
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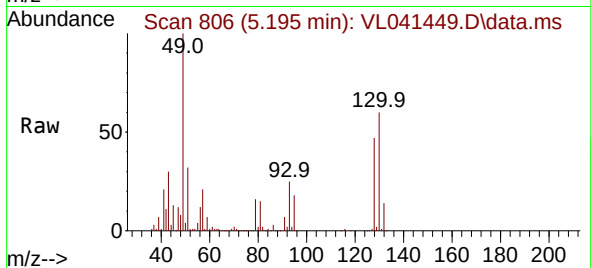
Reviewed By : Mahesh Dadoda 07/30/2024
Supervised By : Semsettin Yesilyurt 07/30/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.016 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

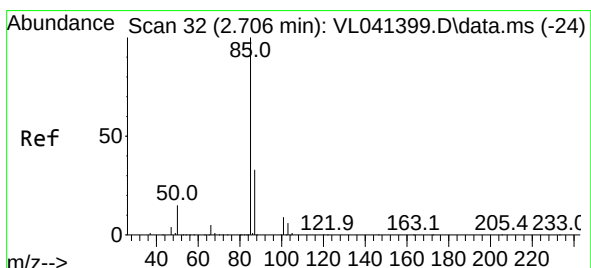
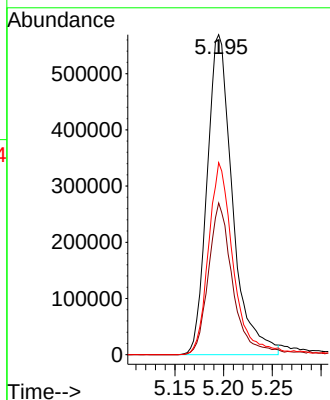
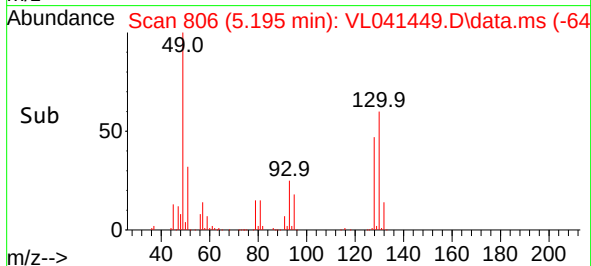
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01



Tgt Ion: 49 Resp: 103378
Ion Ratio Lower Upper
49 100
128 46.7 23.8 71.4
130 60.6 30.8 92.4

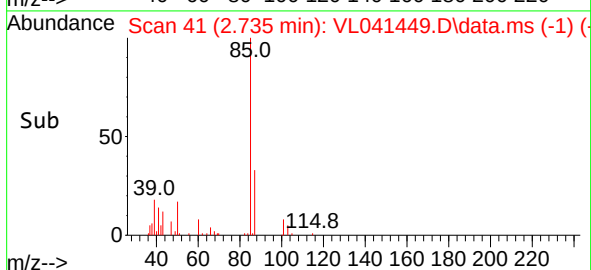
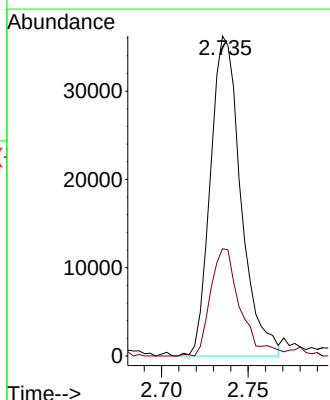
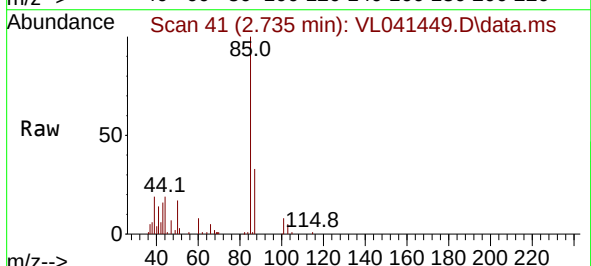
Manual Integrations
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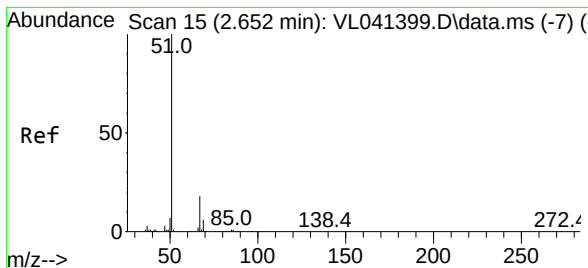
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#2
Dichlorodifluoromethane
Concen: 0.249 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.026 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

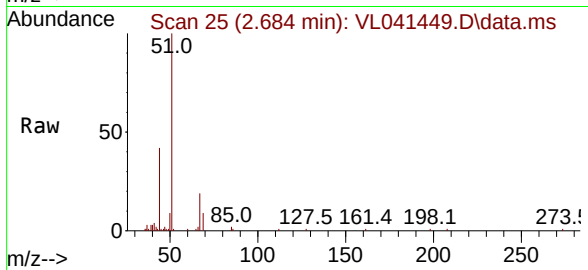
Tgt Ion: 85 Resp: 44360
Ion Ratio Lower Upper
85 100
87 33.5 26.0 39.0





#3
Chlorodifluoromethane
Concen: 0.274 ppbv m
RT: 2.684 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

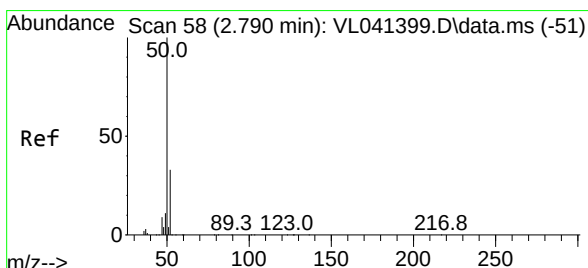
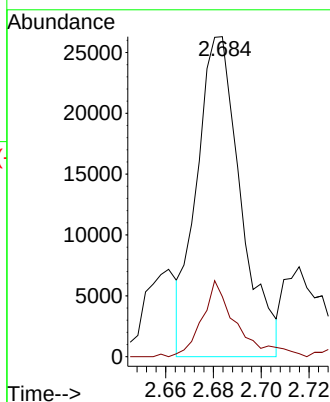
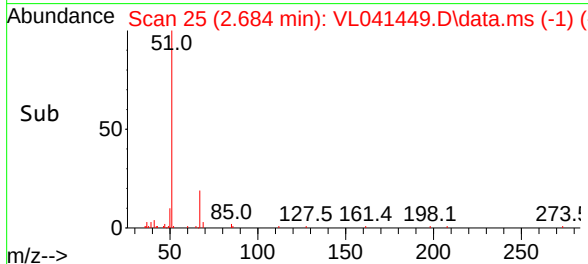
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01



Tgt Ion: 51 Resp: 33760
Ion Ratio Lower Upper
51 100
67 19.4 14.5 21.7

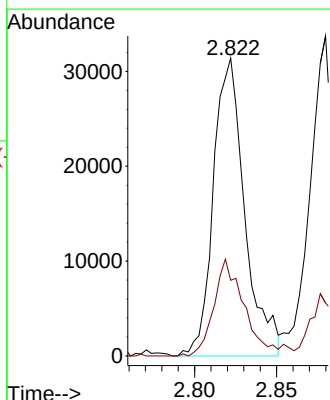
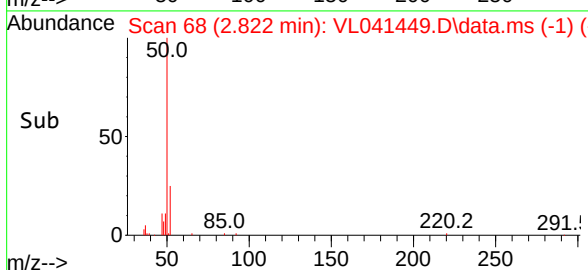
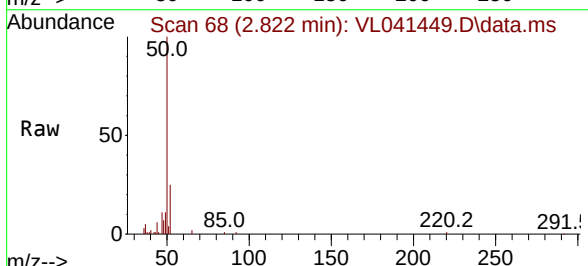
Manual Integrations
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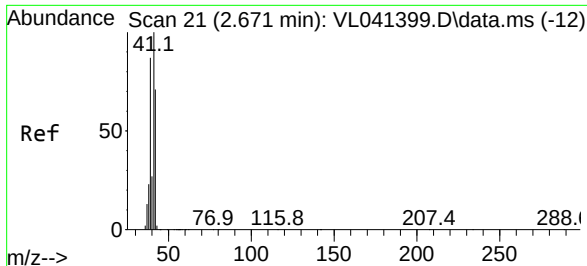
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#4
Chloromethane
Concen: 0.637 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.029 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

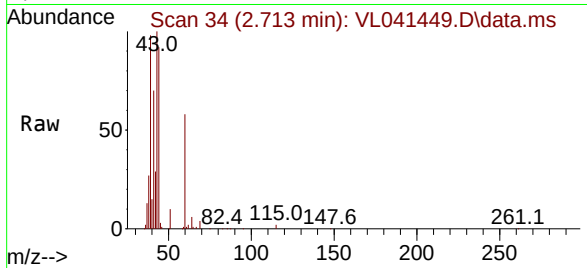
Tgt Ion: 50 Resp: 41719
Ion Ratio Lower Upper
50 100
52 25.4 26.1 39.1#





#9
Propene
Concen: 1.139 ppbv m
RT: 2.713 min Scan# 34
Delta R.T. 0.042 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

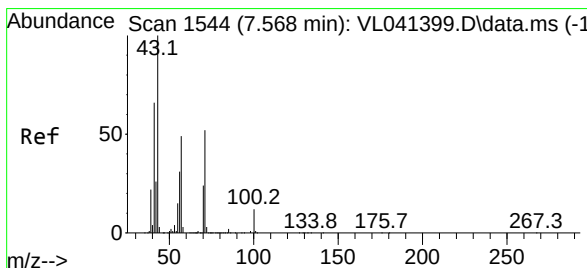
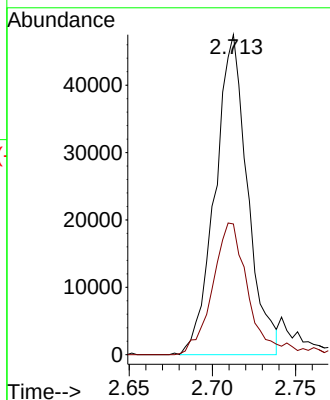
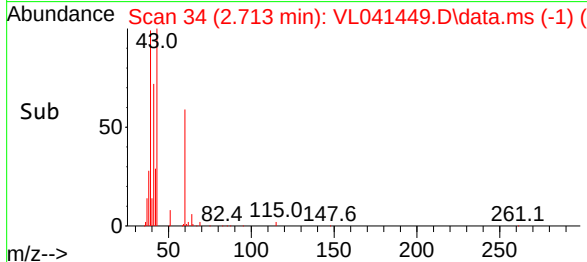
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01



Tgt Ion: 41 Resp: 64360
Ion Ratio Lower Upper
41 100
42 1710.4 55.9 83.9

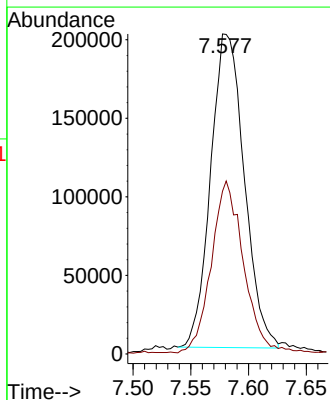
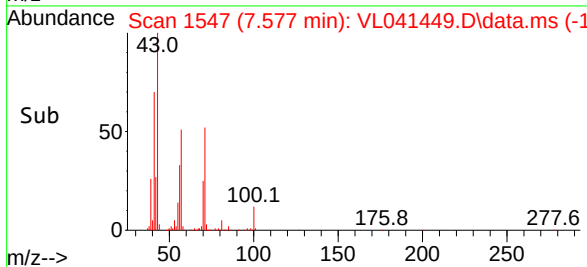
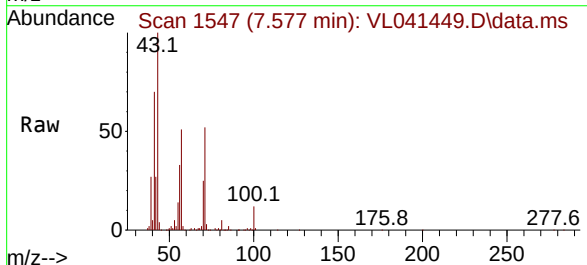
Manual Integrations
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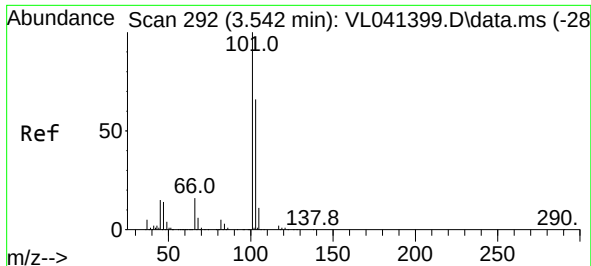
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#10
Heptane
Concen: 3.184 ppbv
RT: 7.577 min Scan# 1547
Delta R.T. 0.006 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

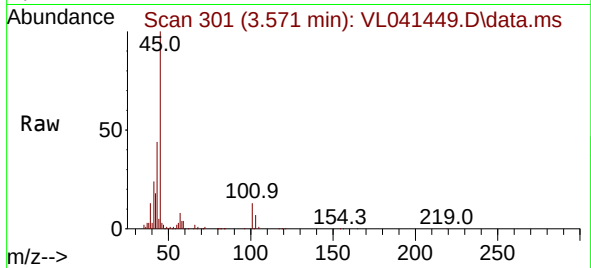
Tgt Ion: 43 Resp: 404504
Ion Ratio Lower Upper
43 100
57 53.5 40.5 60.7





#11
Trichlorofluoromethane
Concen: 0.212 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.026 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

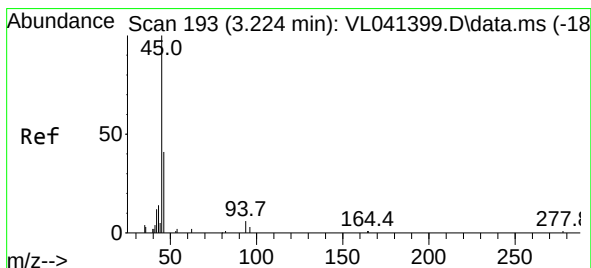
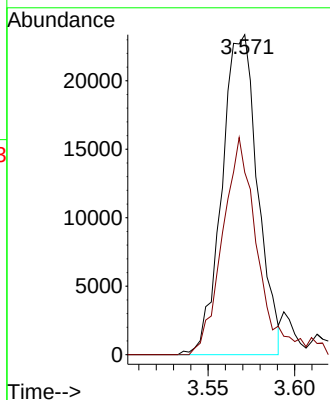
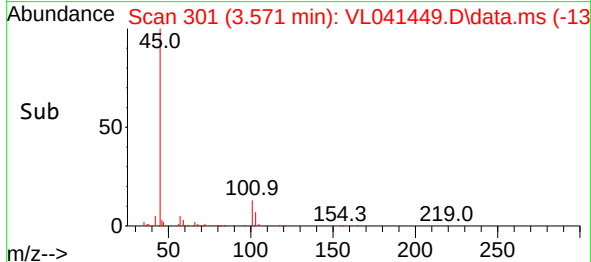
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01



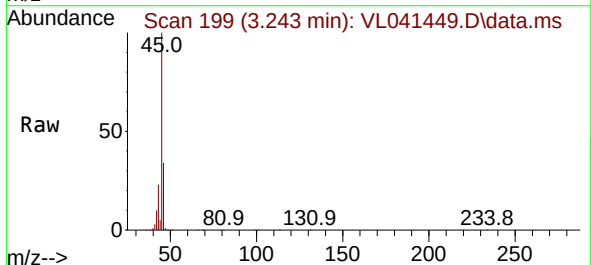
Tgt Ion:101 Resp: 33498
Ion Ratio Lower Upper
101 100
103 56.9 52.6 79.0

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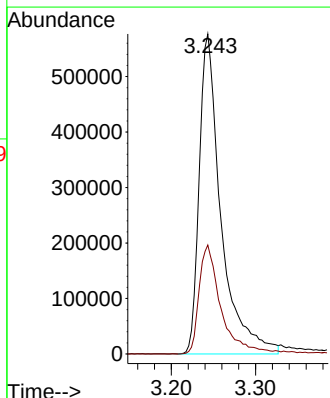
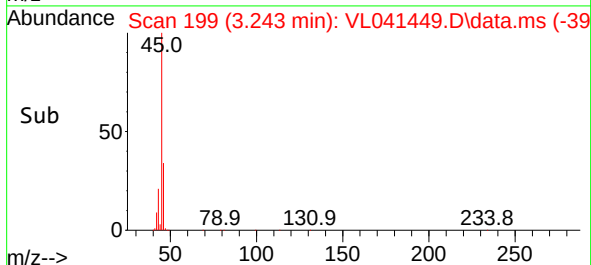
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024

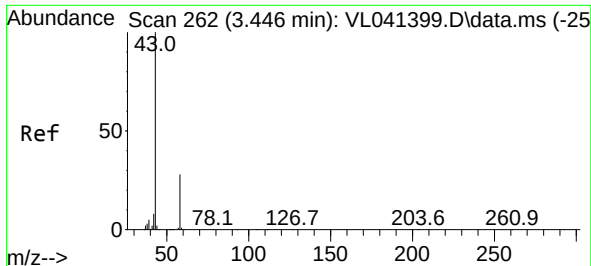


#13
Ethanol
Concen: 205.258 ppbv
RT: 3.243 min Scan# 199
Delta R.T. 0.016 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34



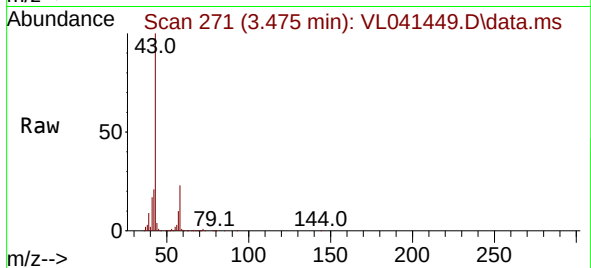
Tgt Ion: 45 Resp: 1037156
Ion Ratio Lower Upper
45 100
46 35.3 13.4 53.4





#15
Acetone
Concen: 4.290 ppbv m
RT: 3.475 min Scan# 21
Delta R.T. 0.022 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

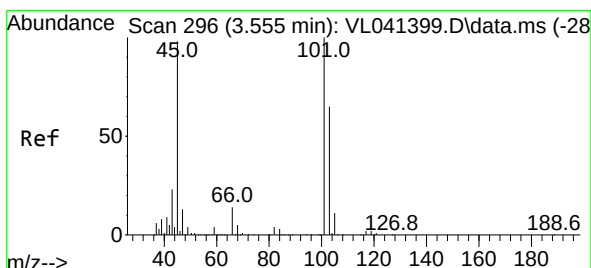
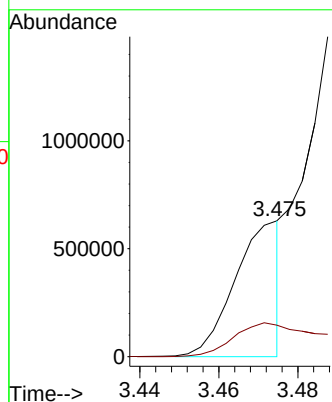
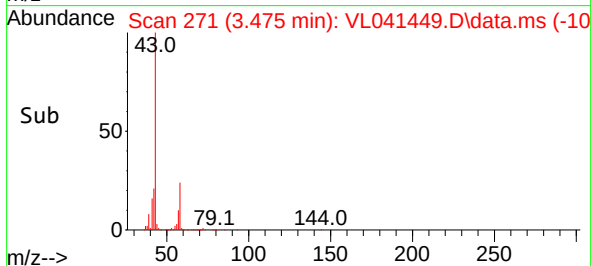
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01



Tgt Ion: 43 Resp: 50388
Ion Ratio Lower Upper
43 100
58 70.0 21.4 32.2

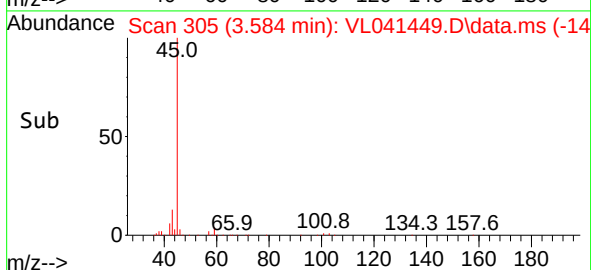
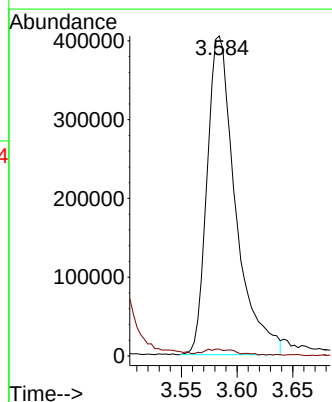
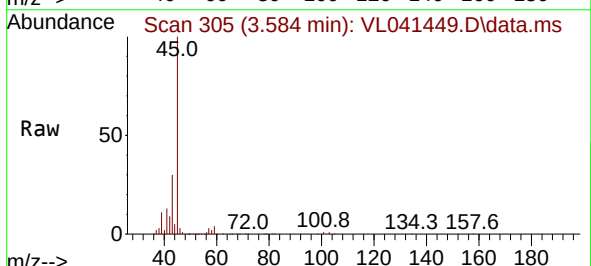
Manual Integrations
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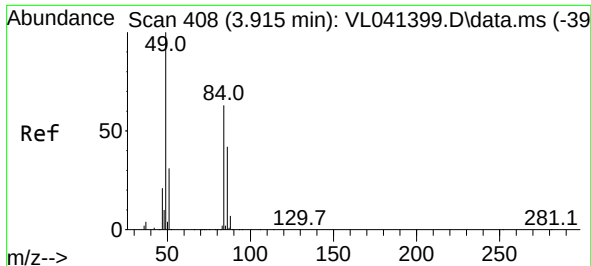
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#19
Isopropyl Alcohol
Concen: 10.476 ppbv
RT: 3.584 min Scan# 305
Delta R.T. 0.022 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

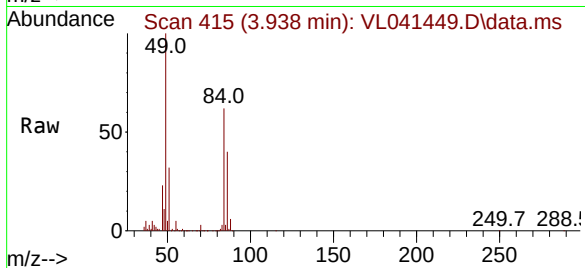
Tgt Ion: 45 Resp: 719382
Ion Ratio Lower Upper
45 100
58 2.5 1.9 2.9





#20
Methylene Chloride
Concen: 6.301 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.019 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

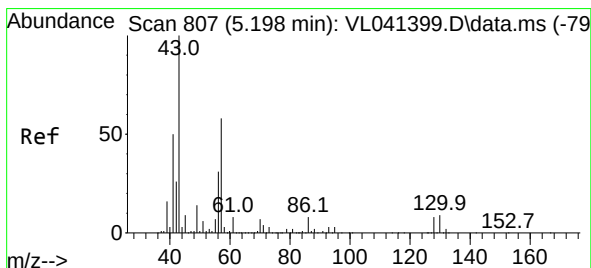
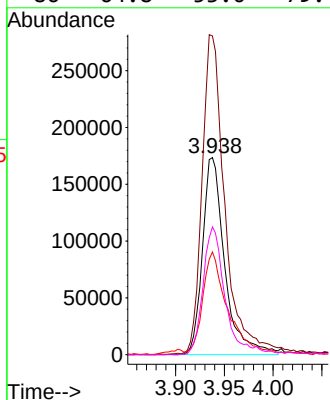
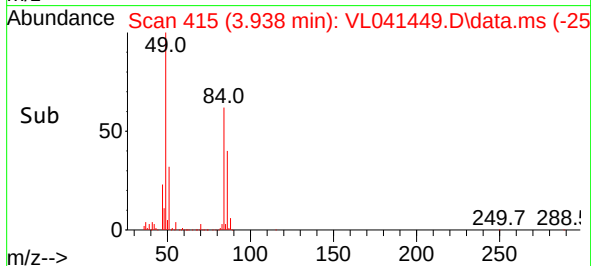
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01



Tgt Ion: 84 Resp: 27597
Ion Ratio Lower Upper
84 100
49 161.0 126.6 190.0
51 51.1 38.6 58.0
86 64.8 53.0 79.4

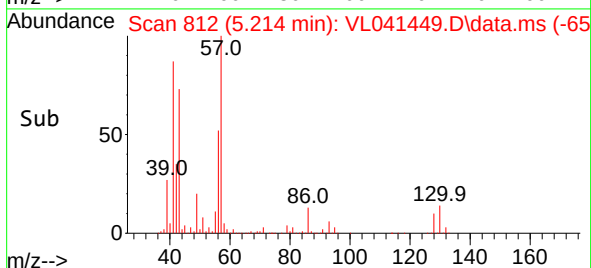
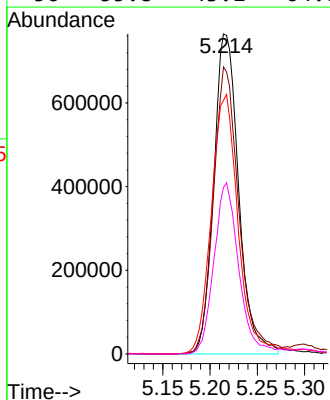
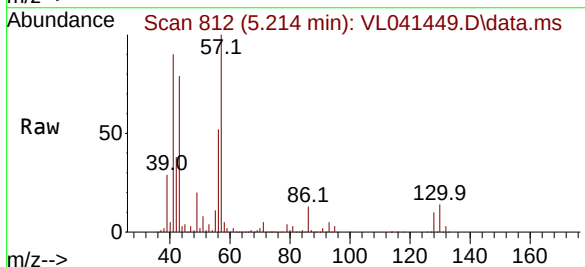
Manual Integrations
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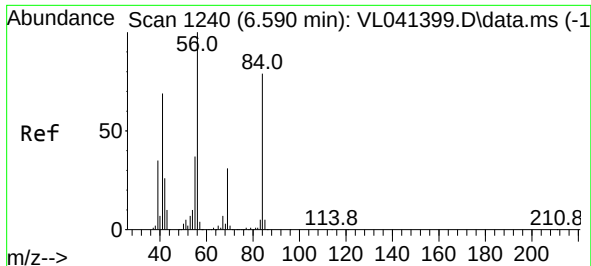
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#26
Hexane
Concen: 14.499 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.016 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

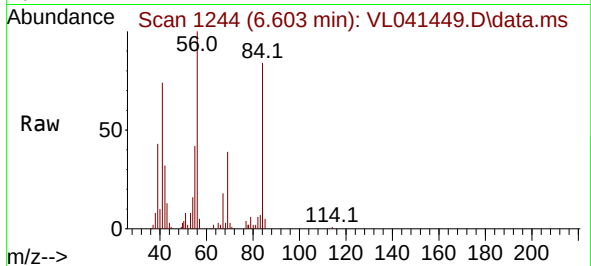
Tgt Ion: 57 Resp: 1403553
Ion Ratio Lower Upper
57 100
41 92.0 74.0 111.0
43 88.0 193.6 290.4#
56 55.8 43.1 64.7





#30
Cyclohexane
Concen: 1.027 ppbv
RT: 6.603 min Scan# 1240
Delta R.T. 0.010 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

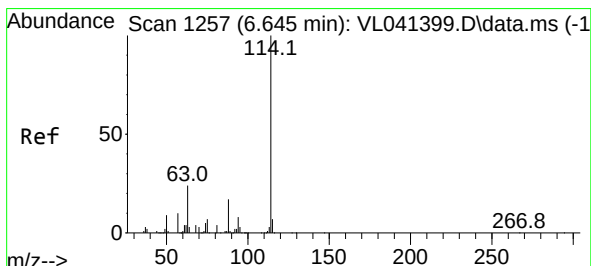
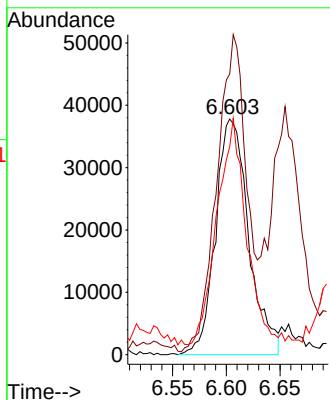
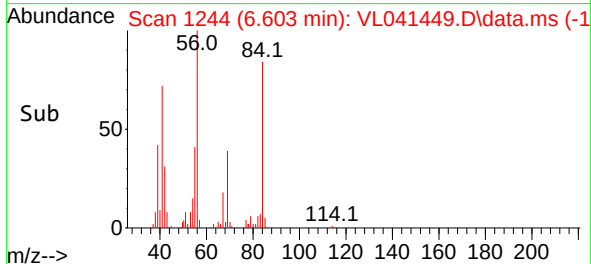
Instrument : MSVOA_L
ClientSampleId : ACVI-AA01



Tgt Ion: 84 Resp: 8093
Ion Ratio Lower Upper
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56 125.4 111.2 166.8
41 86.3 70.3 105.5

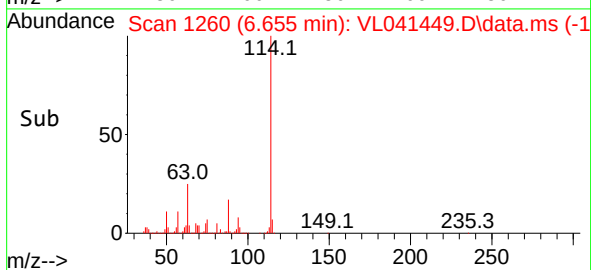
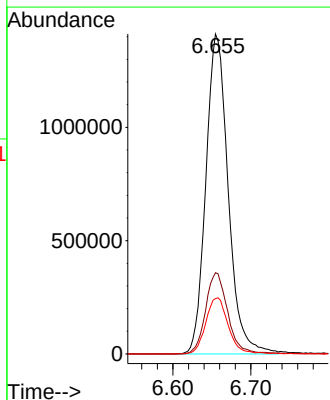
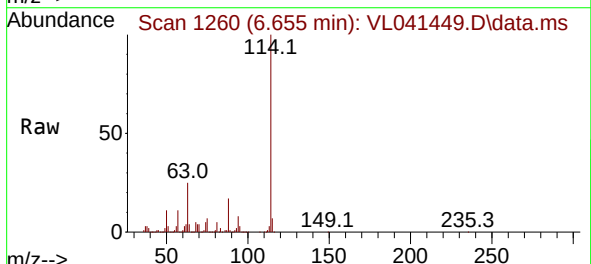
Manual Integrations
APPROVED

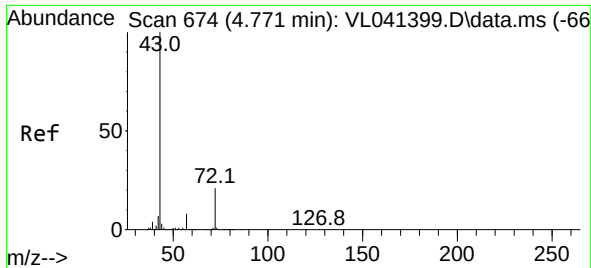
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.010 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

Tgt Ion:114 Resp: 2817453
Ion Ratio Lower Upper
114 100
63 25.4 20.3 30.5
88 17.8 14.3 21.5





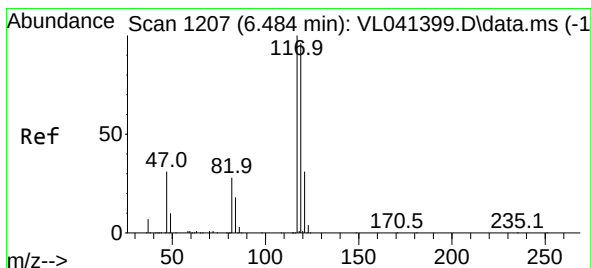
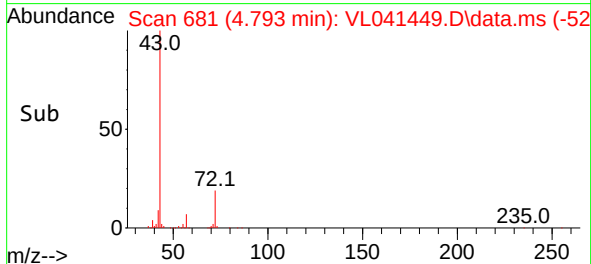
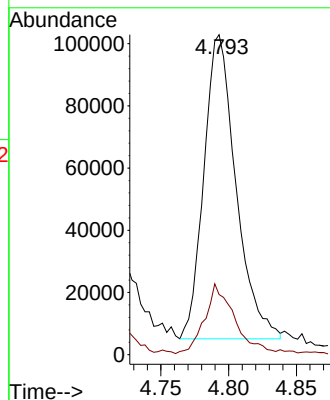
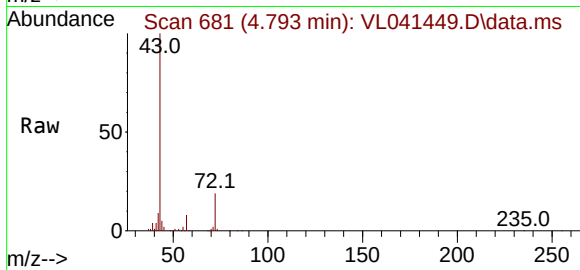
#34
2-Butanone
Concen: 1.180 ppbv
RT: 4.793 min Scan# 61
Delta R.T. 0.019 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01

Tgt Ion: 43 Resp: 16081
Ion Ratio Lower Upper
43 100
72 23.7 17.3 25.9

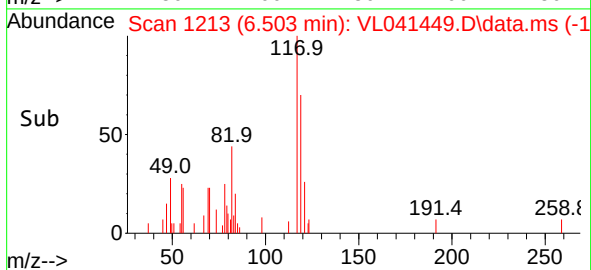
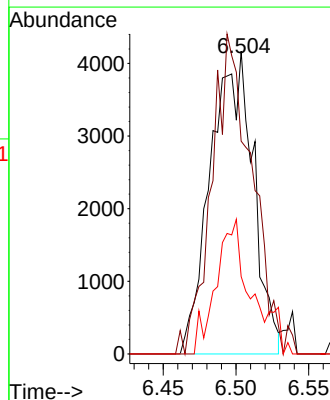
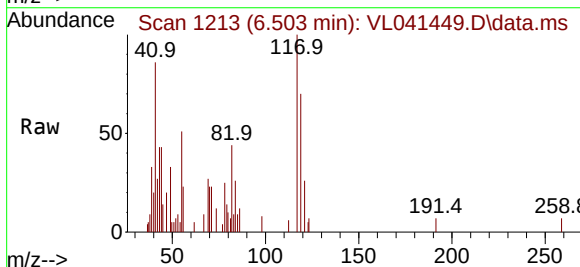
Manual Integrations
APPROVED

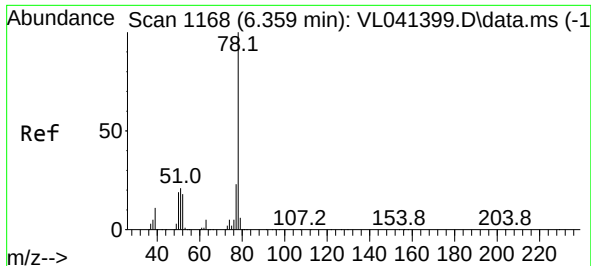
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#35
Carbon Tetrachloride
Concen: 0.055 ppbv m
RT: 6.503 min Scan# 1213
Delta R.T. 0.019 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

Tgt Ion:117 Resp: 8497
Ion Ratio Lower Upper
117 100
119 70.3 76.6 115.0#
121 25.6 25.1 37.7





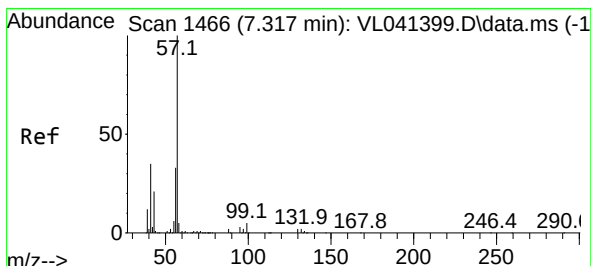
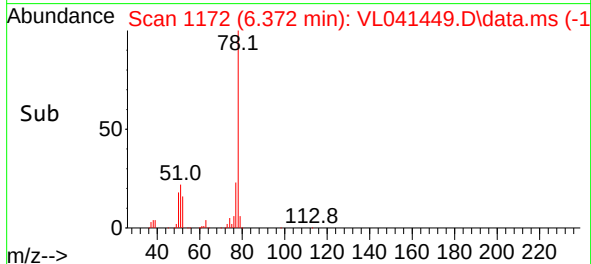
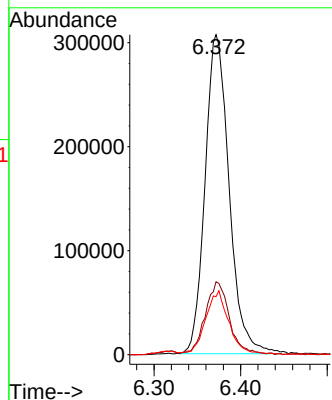
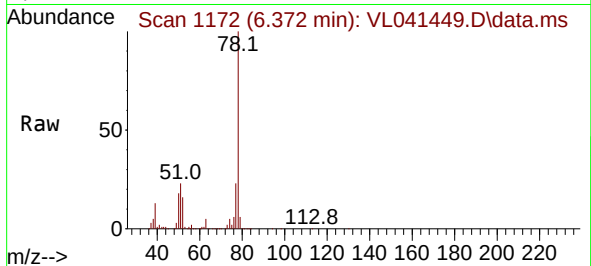
#36
Benzene
Concen: 2.880 ppbv
RT: 6.372 min Scan# 1168
Delta R.T. 0.013 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01

Tgt Ion: 78 Resp: 59284
Ion Ratio Lower Upper
78 100
77 22.5 18.1 27.1
50 17.9 15.5 23.3

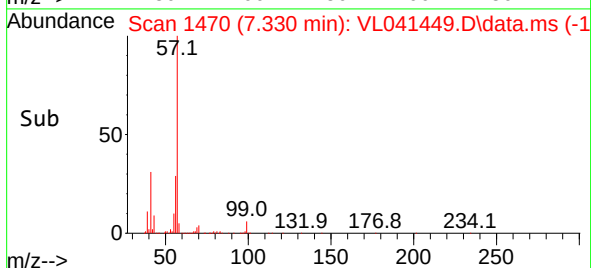
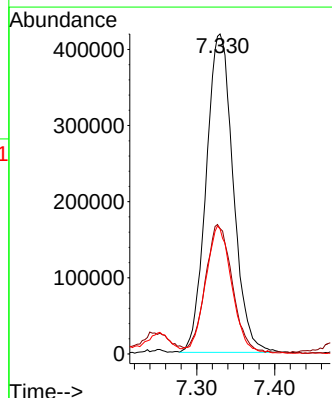
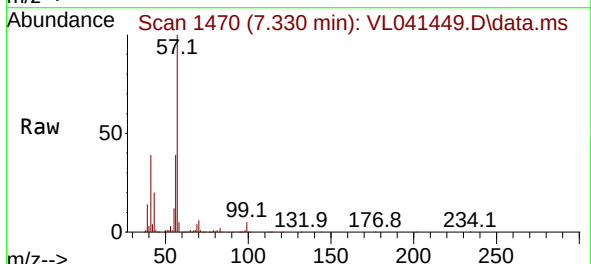
Manual Integrations
APPROVED

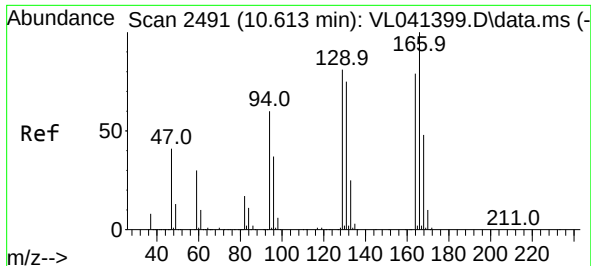
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#44
2,2,4-Trimethylpentane
Concen: 2.930 ppbv
RT: 7.330 min Scan# 1470
Delta R.T. 0.013 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

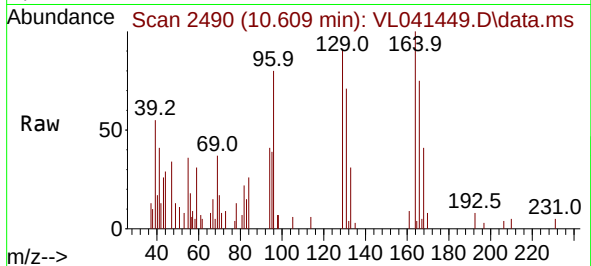
Tgt Ion: 57 Resp: 1007431
Ion Ratio Lower Upper
57 100
41 41.1 27.0 40.6#
56 39.5 25.2 37.8#





#52
Tetrachloroethene
Concen: 0.114 ppbv m
RT: 10.609 min Scan# 2491
Delta R.T. -0.000 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

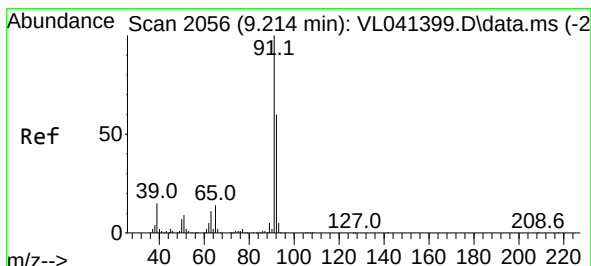
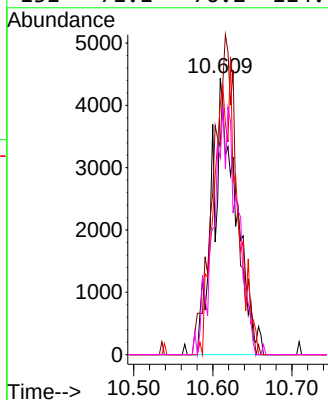
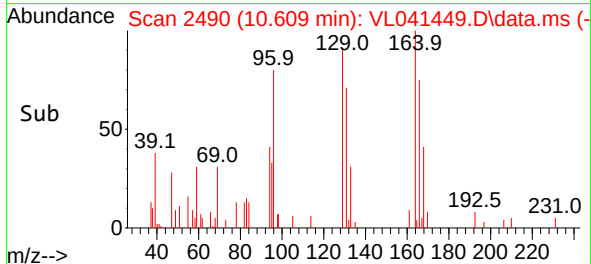
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01



Tgt Ion:164 Resp: 9070
Ion Ratio Lower Upper
164 100
166 75.5 101.1 151.7
129 90.6 81.7 122.5
131 71.1 76.2 114.4#

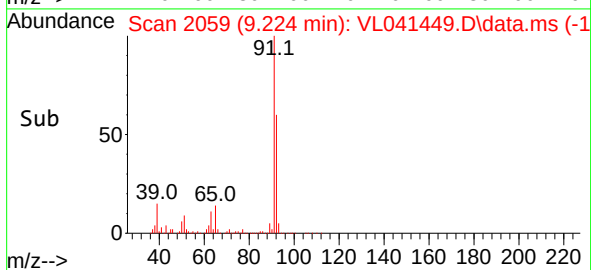
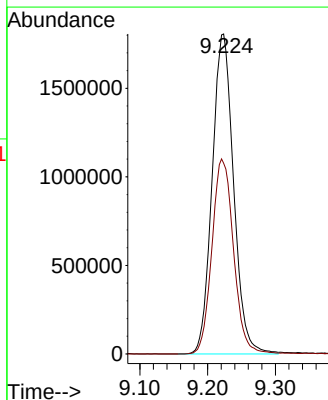
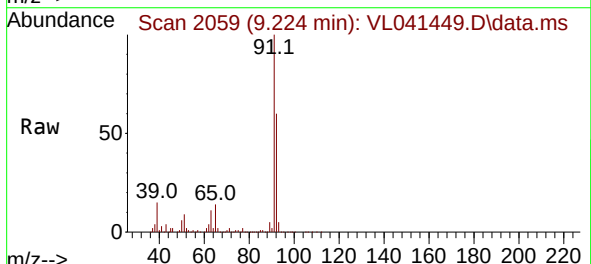
Manual Integrations
APPROVED

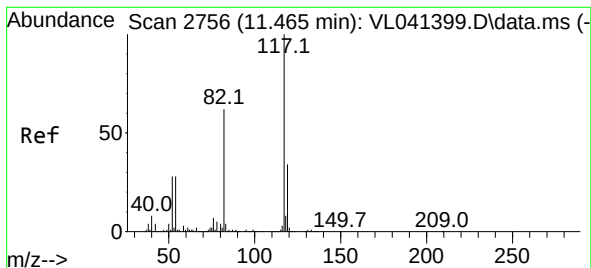
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#53
Toluene
Concen: 17.338 ppbv
RT: 9.224 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

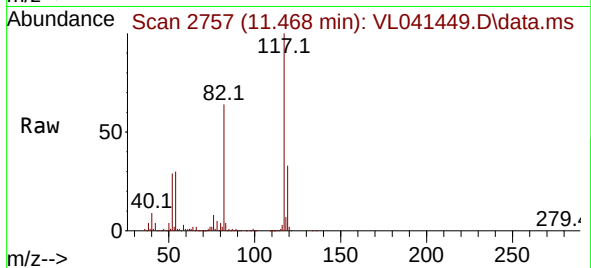
Tgt Ion: 91 Resp: 3975844
Ion Ratio Lower Upper
91 100
92 61.7 48.7 73.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

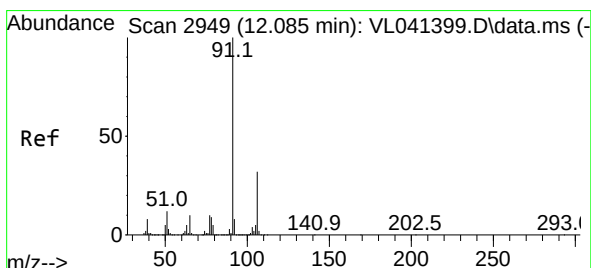
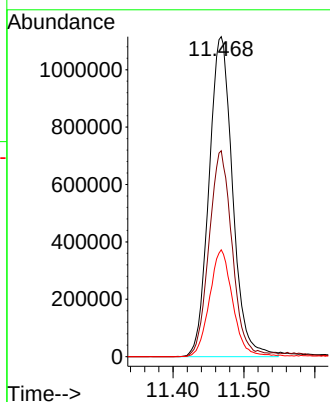
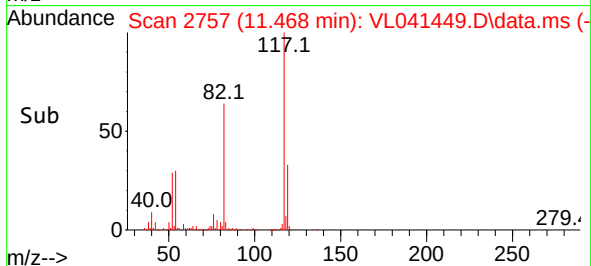
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01



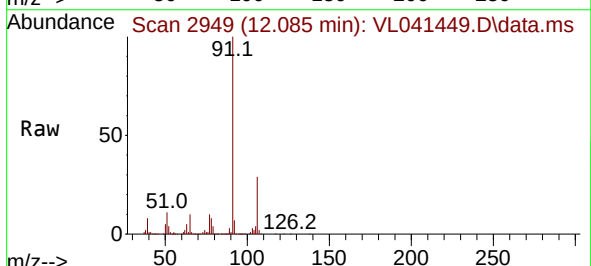
Tgt Ion: 117 Resp: 258634
Ion Ratio Lower Upper
117 100
82 64.0 51.0 76.6
119 33.0 45.2 67.8

Manual Integrations
APPROVED

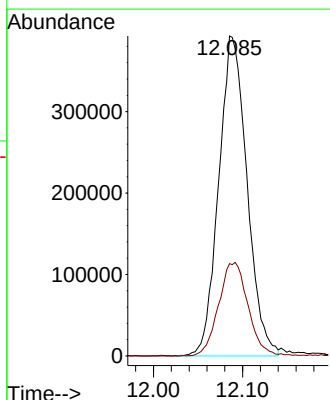
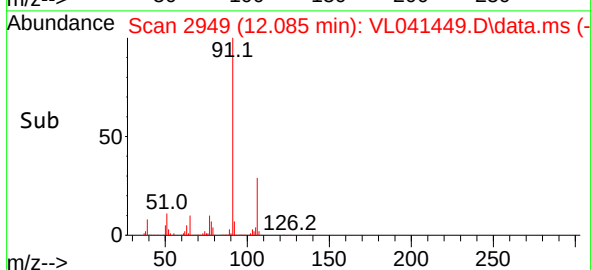
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024

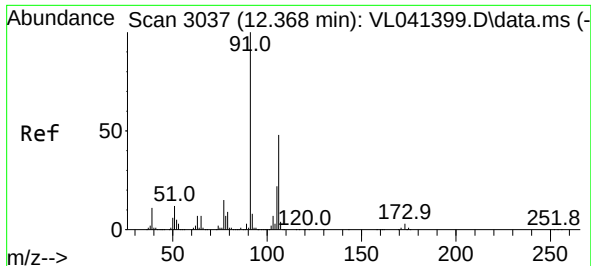


#58
Ethyl Benzene
Concen: 2.910 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. -0.000 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34



Tgt Ion: 91 Resp: 867395
Ion Ratio Lower Upper
91 100
106 28.9 25.8 38.8





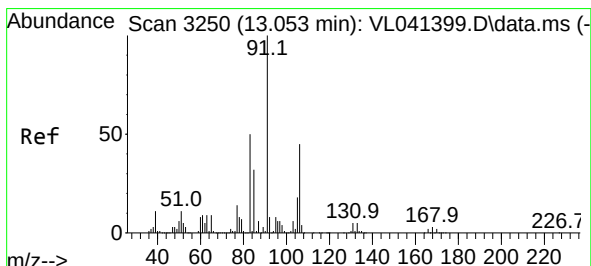
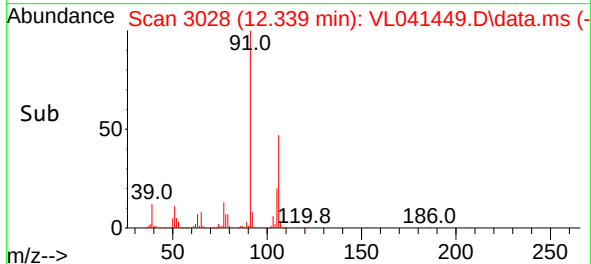
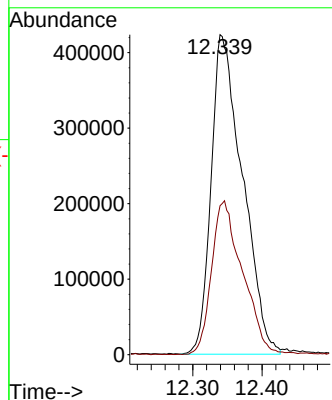
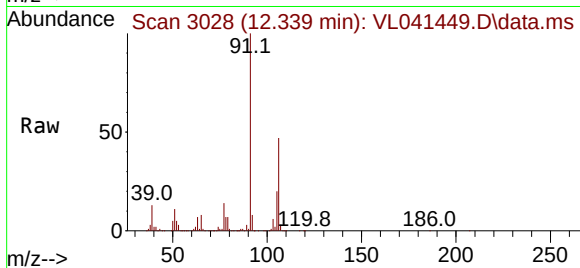
#59
m/p-Xylene
Concen: 5.171 ppbv
RT: 12.339 min Scan# 3037
Delta R.T. -0.029 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01

Tgt Ion: 91 Resp: 1330750
Ion Ratio Lower Upper
91 100
106 48.0 36.3 54.5

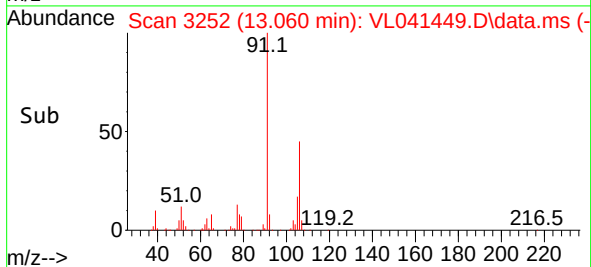
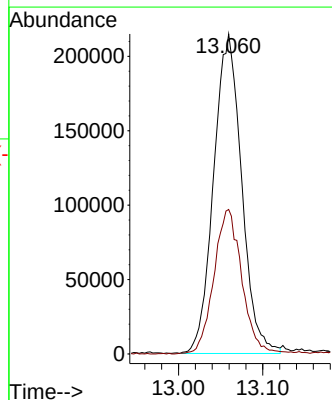
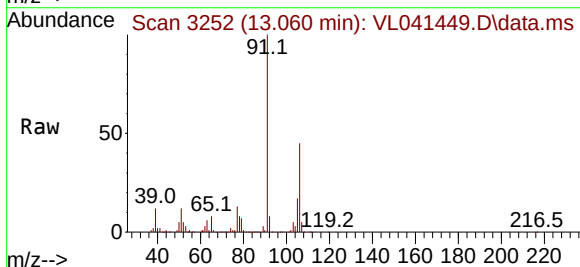
Manual Integrations
APPROVED

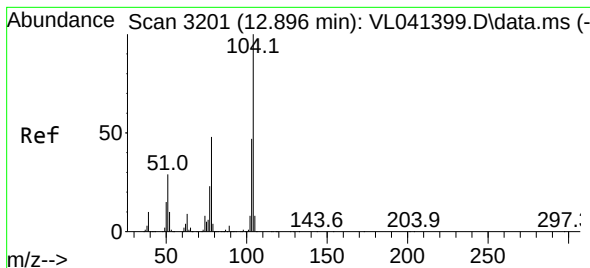
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#60
o-Xylene
Concen: 2.033 ppbv
RT: 13.060 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

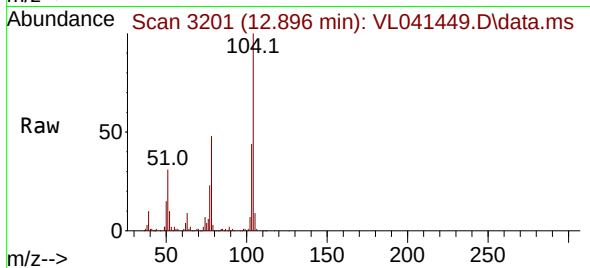
Tgt Ion: 91 Resp: 494903
Ion Ratio Lower Upper
91 100
106 45.5 23.1 69.3





#61
Styrene
Concen: 3.661 ppbv
RT: 12.896 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

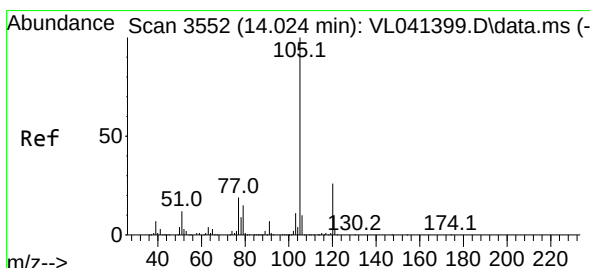
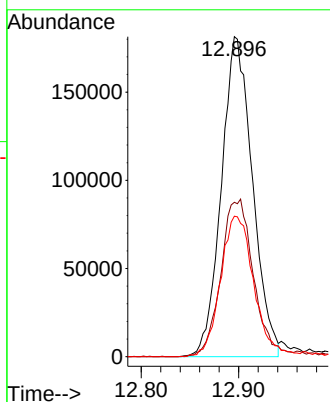
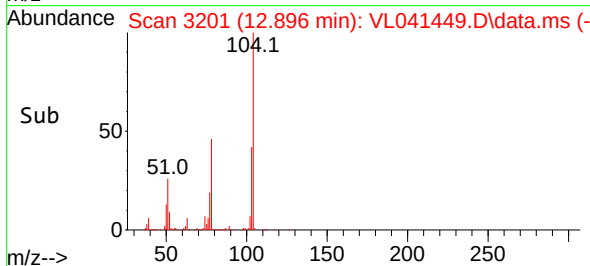
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01



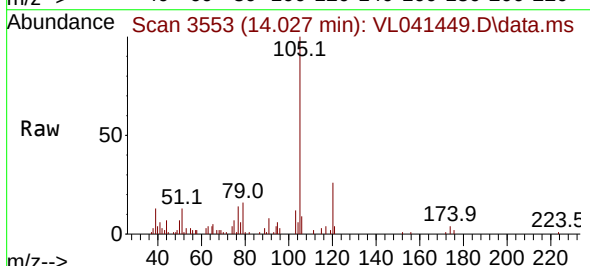
Tgt Ion:104 Resp: 402060
Ion Ratio Lower Upper
104 100
78 52.8 40.8 61.2
103 48.1 38.2 57.4

Manual Integrations
APPROVED

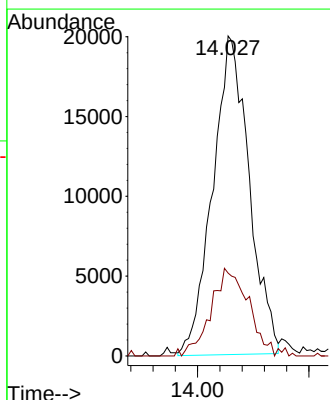
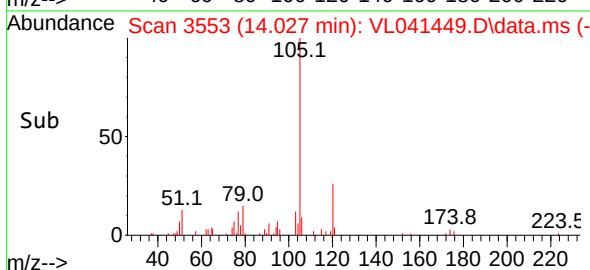
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024

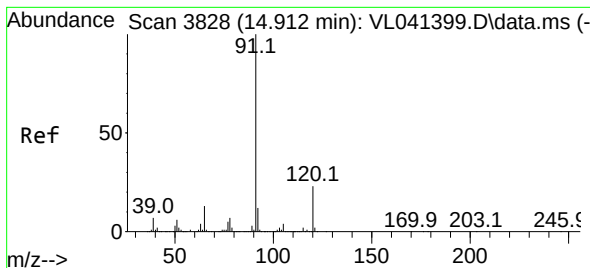


#62
Isopropylbenzene
Concen: 0.123 ppbv
RT: 14.027 min Scan# 3553
Delta R.T. -0.000 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34



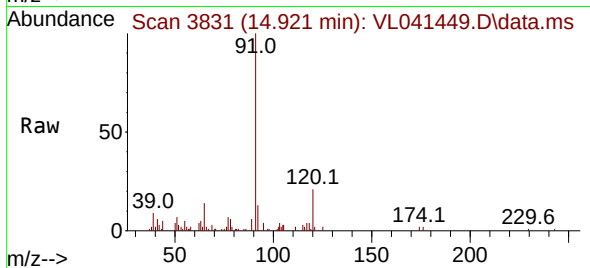
Tgt Ion:105 Resp: 45355
Ion Ratio Lower Upper
105 100
120 28.8 21.0 31.4





#64
n-propylbenzene
Concen: 0.112 ppbv m
RT: 14.921 min Scan# 3828
Delta R.T. 0.006 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

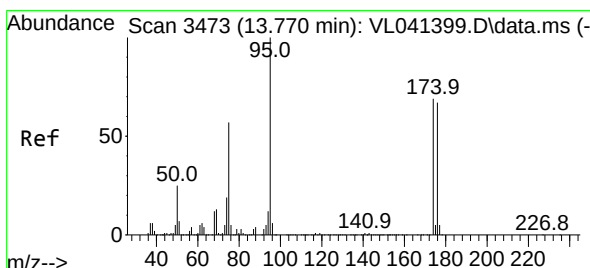
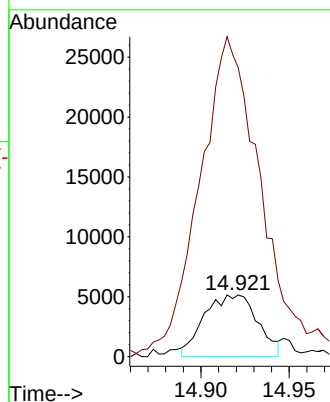
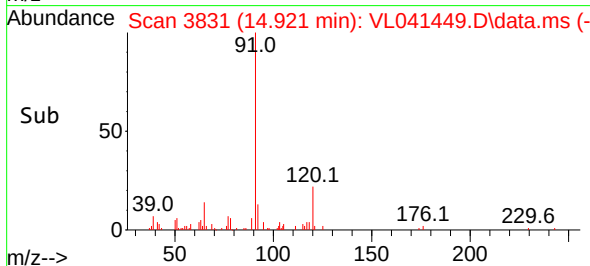
Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01



Tgt Ion:120 Resp: 10830
Ion Ratio Lower Upper
120 100
91 0.0 361.4 542.0

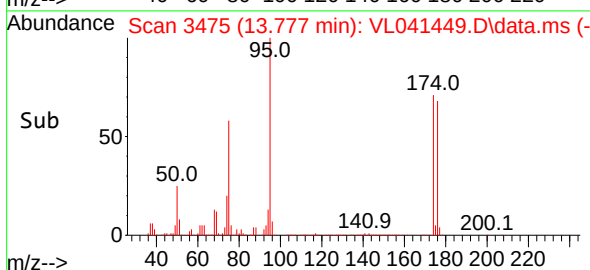
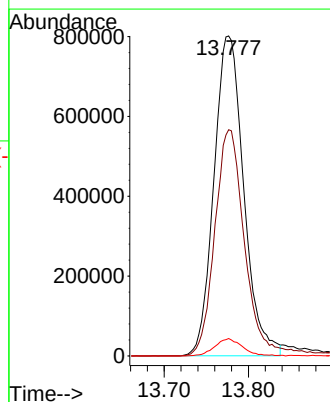
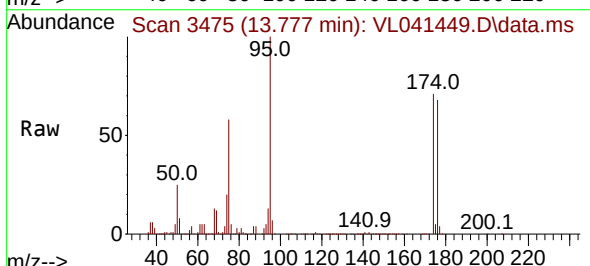
Manual Integrations
APPROVED

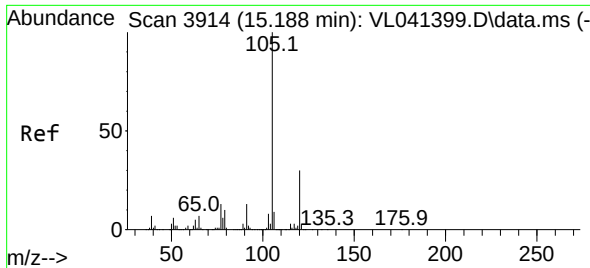
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 9.889 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.003 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

Tgt Ion: 95 Resp: 1968173
Ion Ratio Lower Upper
95 100
174 72.8 56.3 84.5
175 5.2 4.0 6.0





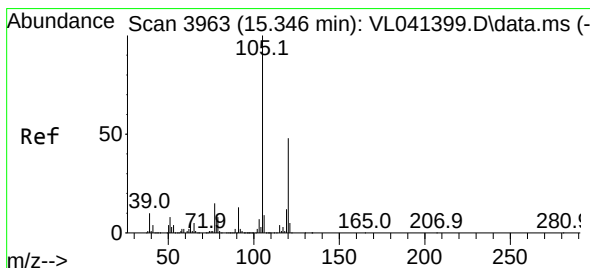
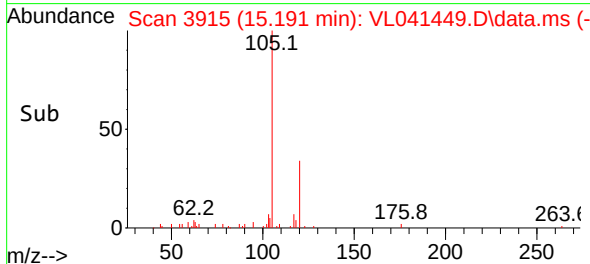
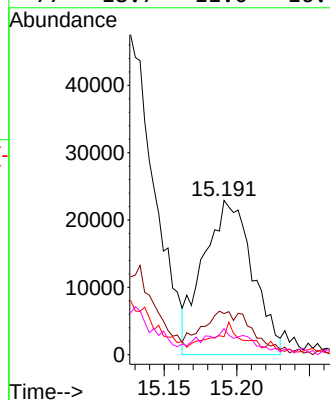
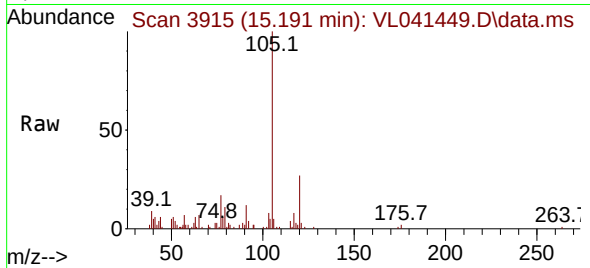
#72
4-Ethyltoluene
Concen: 0.189 ppbv m
RT: 15.191 min Scan# 3915
Delta R.T. -0.000 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

Instrument :
MSVOA_L
ClientSampleId :
ACVI-AA01

Tgt Ion:105 Resp: 54118
Ion Ratio Lower Upper
105 100
120 28.4 24.2 36.2
91 12.1 10.4 15.6
77 18.7 11.0 16.4#

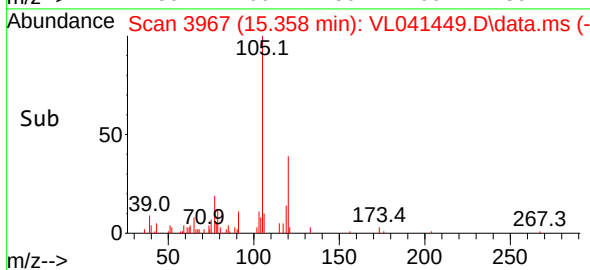
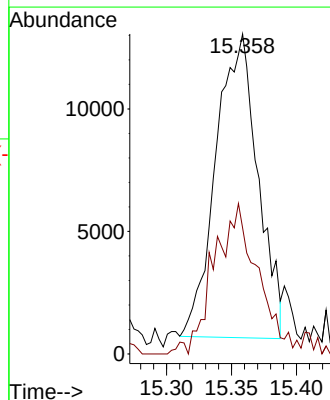
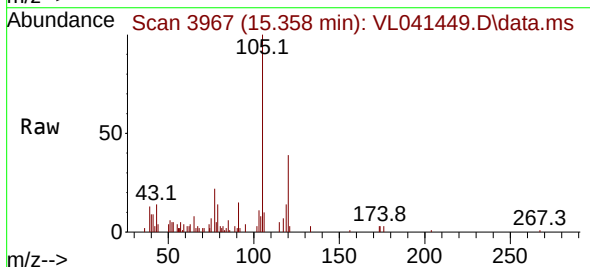
Manual Integrations
APPROVED

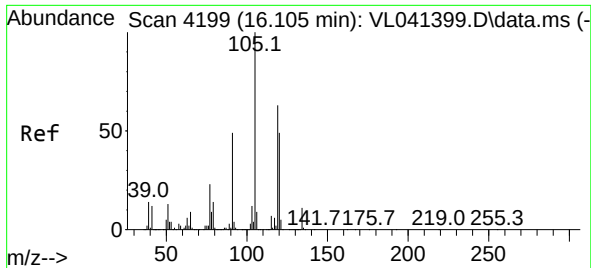
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#73
1,3,5-Trimethylbenzene
Concen: 0.113 ppbv
RT: 15.358 min Scan# 3967
Delta R.T. 0.010 min
Lab File: VL041449.D
Acq: 30 Jul 2024 4:34

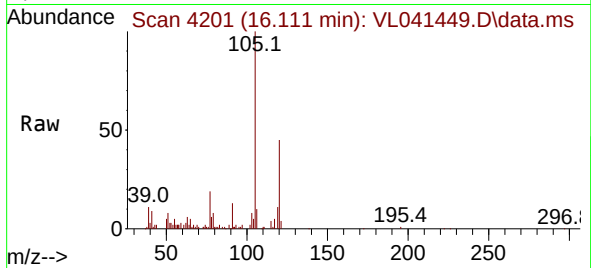
Tgt Ion:105 Resp: 27816
Ion Ratio Lower Upper
105 100
120 37.8 38.6 57.8#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.405 ppbv m
 RT: 16.111 min Scan# 4199
 Delta R.T. 0.003 min
 Lab File: VL041449.D
 Acq: 30 Jul 2024 4:34

Instrument :
 MSVOA_L
 ClientSampleId :
 ACVI-AA01



Tgt Ion:	105	Resp:	11637
Ion Ratio	Lower	Upper	
105	100		
120	45.3	39.5	59.3
91	13.4	39.8	59.8
77	19.1	18.2	27.4

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/30/2024
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