

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041447.D
 Acq On : 30 Jul 2024 3:13
 Operator : SY/MD
 Sample : P3342-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ACVI-IA-05

Manual Integrations
 APPROVED

Reviewed By :Mahesh
 Dadoda

Quant Time: Jul 30 06:47:30 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

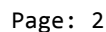
Response via : Initial Calibration

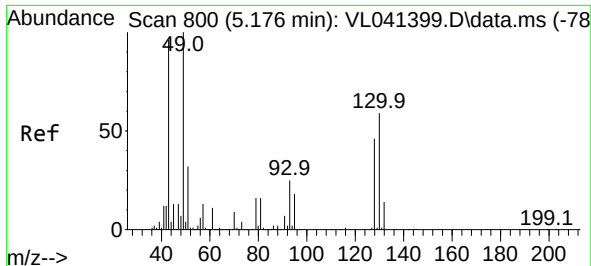
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.201	49	1100150	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.658	114	2931106	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.468	117	2721567	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	2123718	10.140	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.735	85	92332	0.488	ppbv	97
4) Chloromethane	2.816	50	47245	0.678	ppbv	98
10) Heptane	7.584	43	458179	3.389	ppbv	100
11) Trichlorofluoromethane	3.571	101	33863	0.201	ppbv	98
13) Ethanol	3.259	45	7137393	1327.321	ppbv	94
15) Acetone	3.475	43	2819980m	22.560	ppbv	
19) Isopropyl Alcohol	3.600	45	469894	6.430	ppbv #	1
20) Methylene Chloride	3.944	84	2521547	54.095	ppbv	97
26) Hexane	5.221	57	2847934	27.646	ppbv #	38
29) Chloroform	5.288	83	24935	0.148	ppbv	89
30) Cyclohexane	6.607	84	47880m	0.571	ppbv	
34) 2-Butanone	4.796	43	131522	0.928	ppbv	98
35) Carbon Tetrachloride	6.497	117	8932	0.055	ppbv #	92
36) Benzene	6.378	78	506427	2.365	ppbv	98
44) 2,2,4-Trimethylpentane	7.330	57	1238872	3.463	ppbv #	89
52) Tetrachloroethene	10.622	164	15472m	0.187	ppbv	
53) Toluene	9.224	91	3442544	14.430	ppbv	99
58) Ethyl Benzene	12.092	91	637755	2.033	ppbv	98
59) m/p-Xylene	12.346	91	1300849	4.804	ppbv	97
60) o-Xylene	13.056	91	465569	1.817	ppbv	99
61) Styrene	12.899	104	129070	1.117	ppbv	99
62) Isopropylbenzene	14.031	105	38580m	0.099	ppbv	
69) p-Isopropyltoluene	16.998	119	38338	0.095	ppbv	100
72) 4-Ethyltoluene	15.191	105	49773	0.165	ppbv #	93
73) 1,3,5-Trimethylbenzene	15.355	105	40709m	0.157	ppbv	
74) 1,2,4-Trimethylbenzene	16.108	105	160419	0.531	ppbv #	72

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

Reviewed By :Mahesh
Dadoda

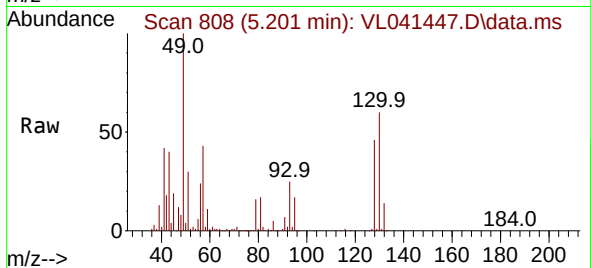
07/30/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 80
Delta R.T. 0.022 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

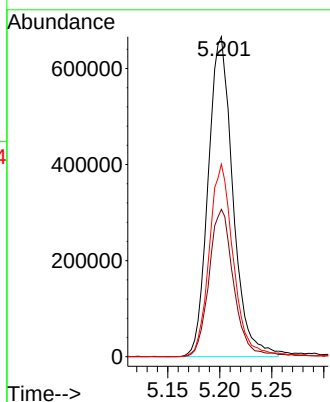
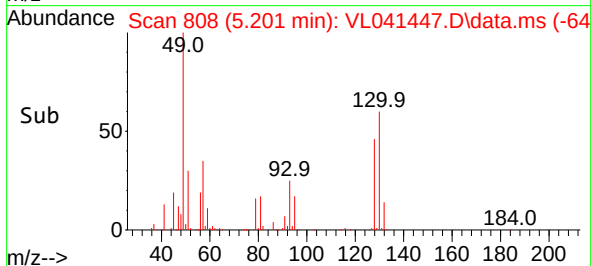
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05



Tgt Ion: 49 Resp: 1100150
Ion Ratio Lower Upper
49 100
128 46.8 23.8 71.4
130 59.8 30.8 92.4

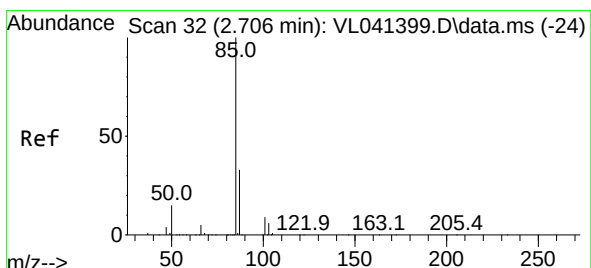
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda



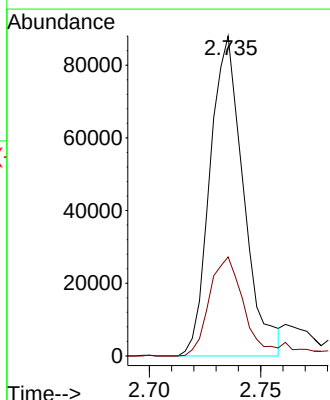
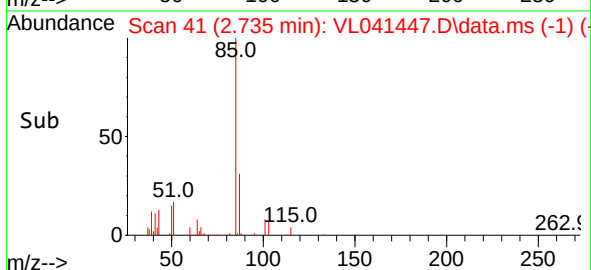
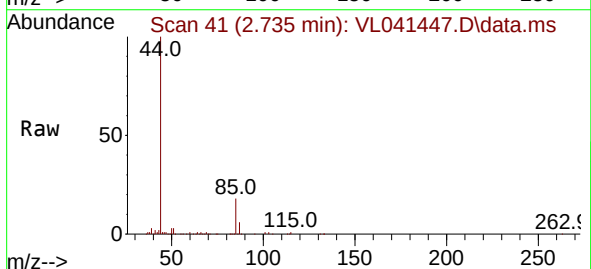
07/30/2024
Supervised By :Semsettin
Yesilyurt

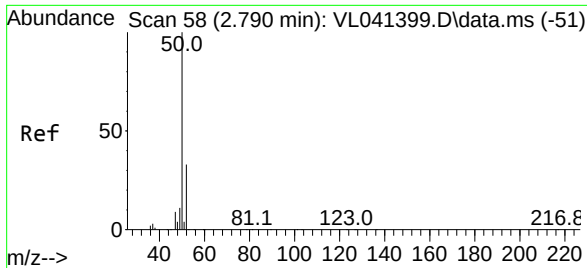
07/30/2024



#2
Dichlorodifluoromethane
Concen: 0.488 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.026 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

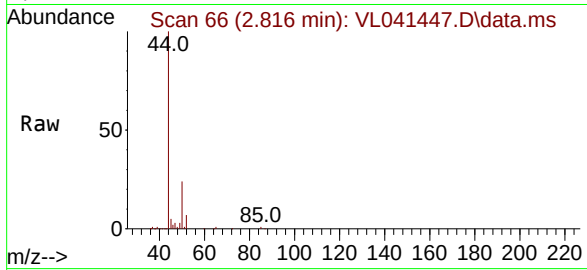
Tgt Ion: 85 Resp: 92332
Ion Ratio Lower Upper
85 100
87 30.9 26.0 39.0





#4
Chloromethane
Concen: 0.678 ppbv
RT: 2.816 min Scan# 60
Delta R.T. 0.023 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

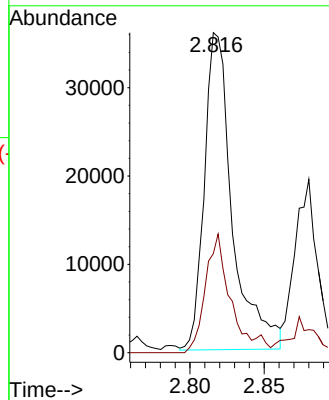
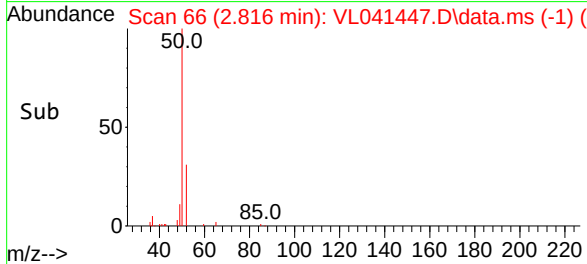
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05



Tgt Ion: 50 Resp: 47249
Ion Ratio Lower Upper
50 100
52 31.4 26.1 39.1

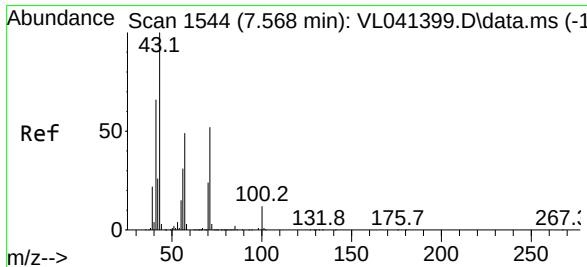
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda

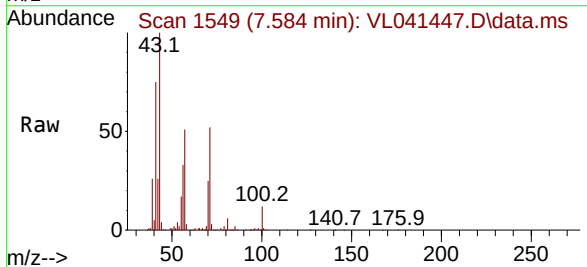


07/30/2024
Supervised By :Semsettin
Yesilyurt

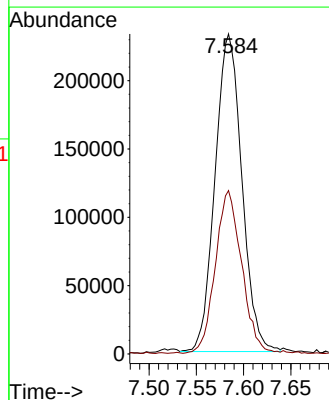
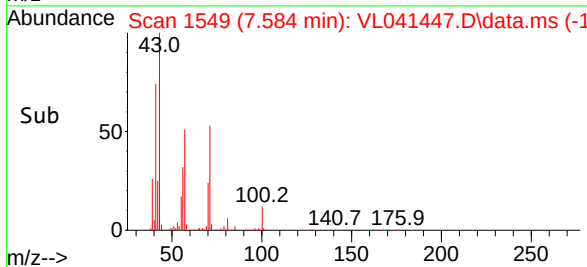
07/30/2024

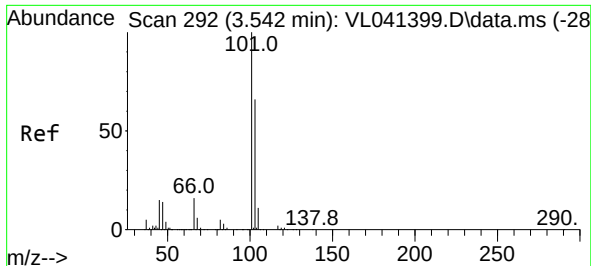


#10
Heptane
Concen: 3.389 ppbv
RT: 7.584 min Scan# 1549
Delta R.T. 0.013 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13



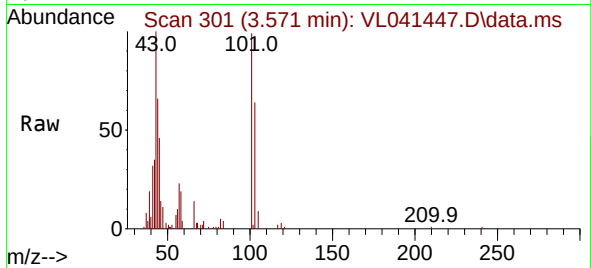
Tgt Ion: 43 Resp: 458179
Ion Ratio Lower Upper
43 100
57 50.5 40.5 60.7





#11
Trichlorofluoromethane
Concen: 0.201 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.026 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

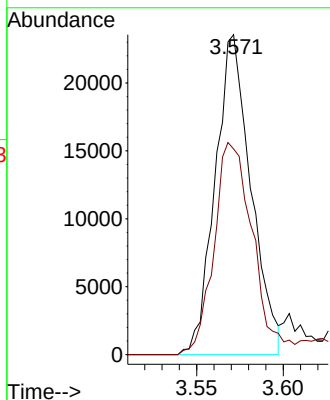
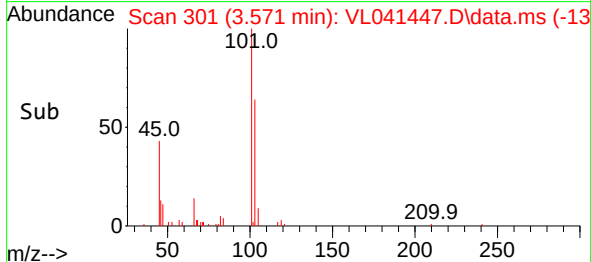
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05



Tgt Ion:101 Resp: 3386
Ion Ratio Lower Upper
101 100
103 64.3 52.6 79.0

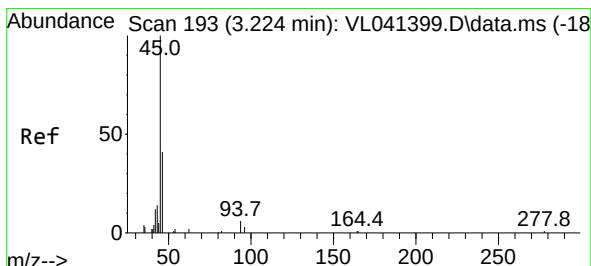
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda

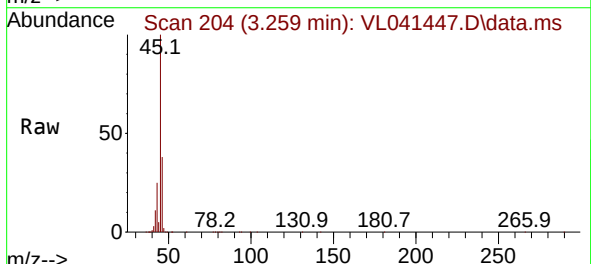


07/30/2024
Supervised By :Semsettin
Yesilyurt

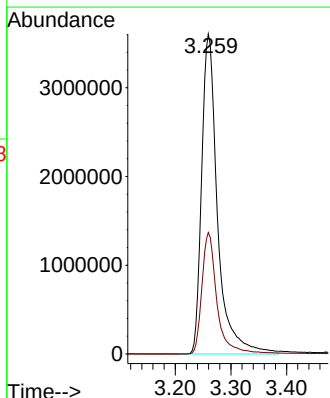
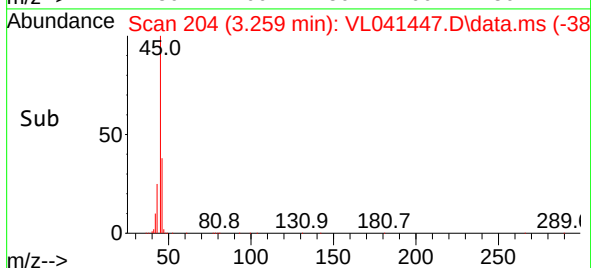
07/30/2024

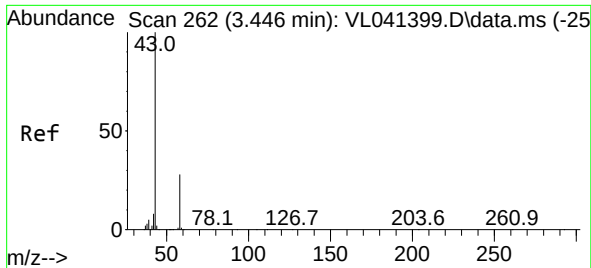


#13
Ethanol
Concen: 1327.321 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.032 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13



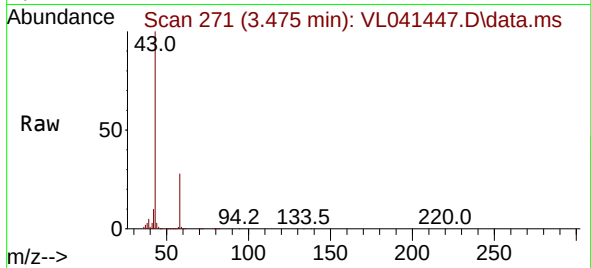
Tgt Ion: 45 Resp: 7137393
Ion Ratio Lower Upper
45 100
46 36.5 13.4 53.4





#15
Acetone
Concen: 22.560 ppbv m
RT: 3.475 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

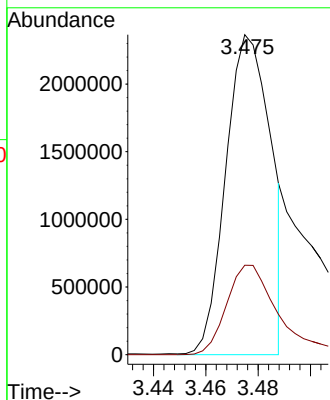
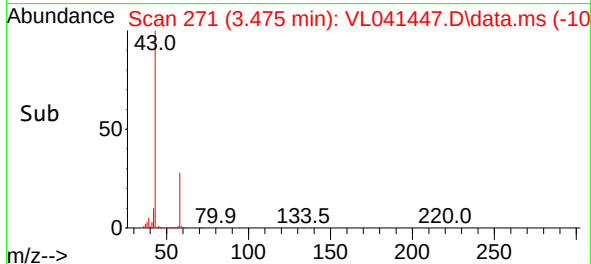
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05



Tgt Ion: 43 Resp: 2819980
Ion Ratio Lower Upper
43 100
58 33.7 21.4 32.2

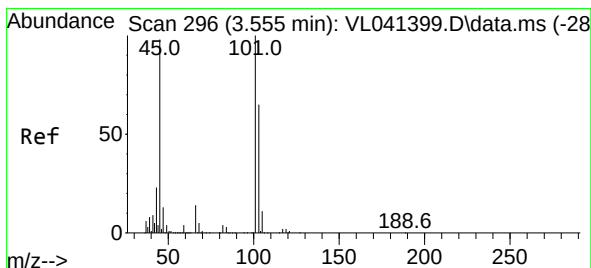
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda

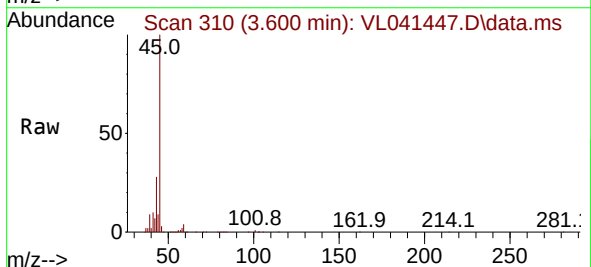


07/30/2024
Supervised By :Semsettin
Yesilyurt

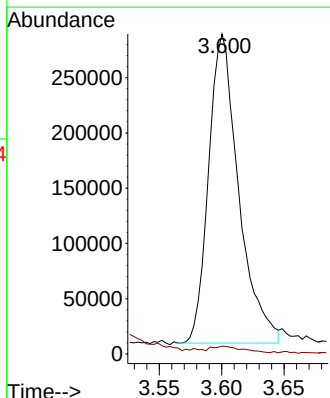
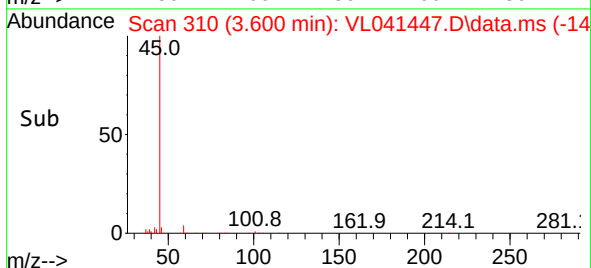
07/30/2024

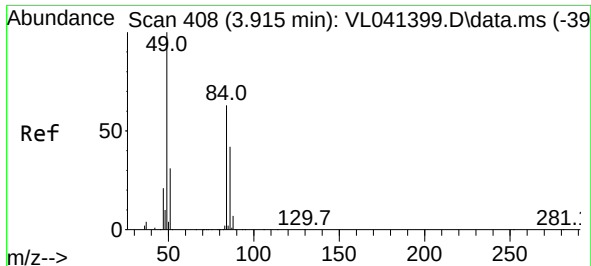


#19
Isopropyl Alcohol
Concen: 6.430 ppbv
RT: 3.600 min Scan# 310
Delta R.T. 0.039 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13



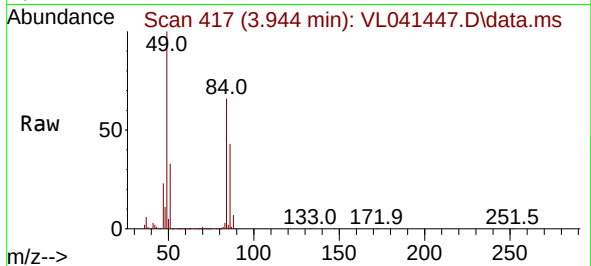
Tgt Ion: 45 Resp: 469894
Ion Ratio Lower Upper
45 100
58 202.6 1.9 2.9





#20
Methylene Chloride
Concen: 54.095 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.026 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05

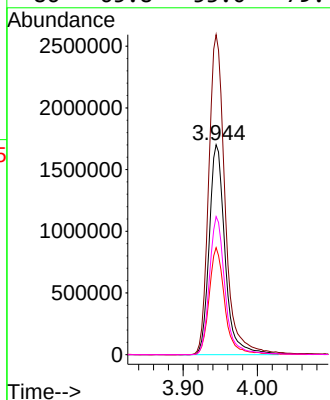
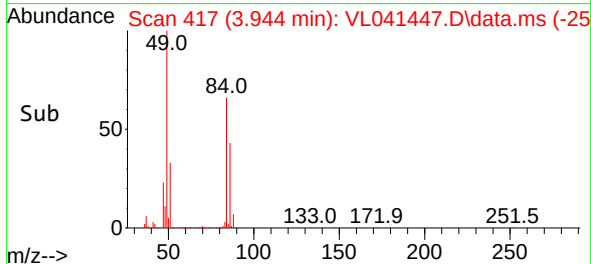


Tgt Ion: 84 Resp: 252154

Ion	Ratio	Lower	Upper
84	100		
49	152.4	126.6	190.0
51	51.0	38.6	58.0
86	65.8	53.0	79.4

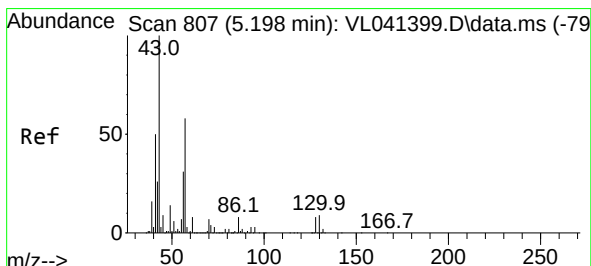
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda



07/30/2024
Supervised By :Semsettin
Yesilyurt

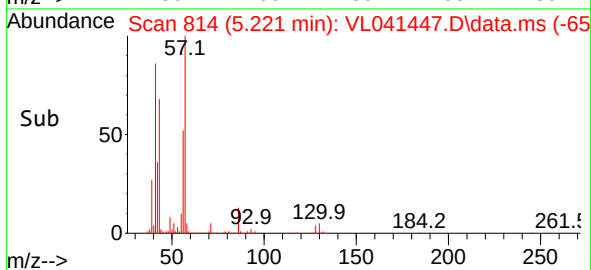
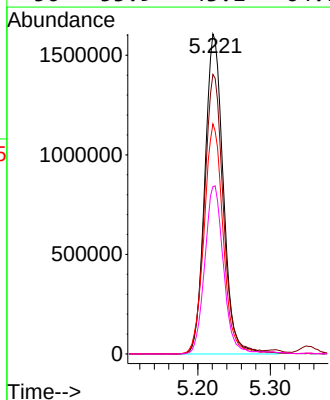
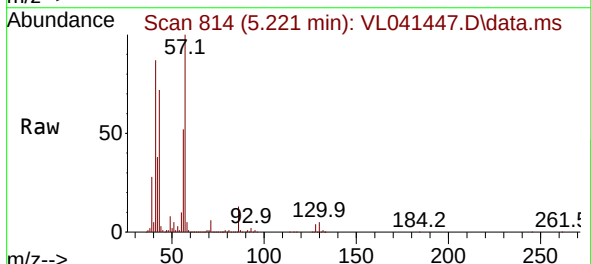
07/30/2024

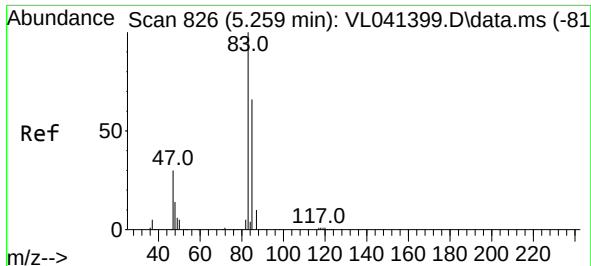


#26
Hexane
Concen: 27.646 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.023 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

Tgt Ion: 57 Resp: 2847934

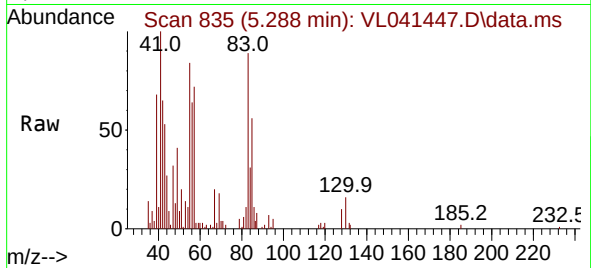
Ion	Ratio	Lower	Upper
57	100		
41	90.6	74.0	111.0
43	74.5	193.6	290.4#
56	53.9	43.1	64.7





#29
Chloroform
Concen: 0.148 ppbv
RT: 5.288 min Scan# 81
Delta R.T. 0.026 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

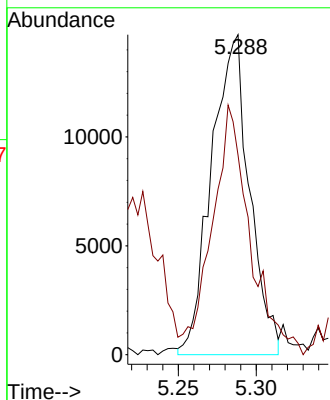
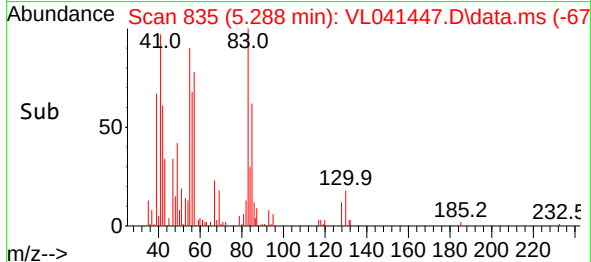
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05



Tgt Ion: 83 Resp: 2493
Ion Ratio Lower Upper
83 100
85 58.0 53.1 79.7

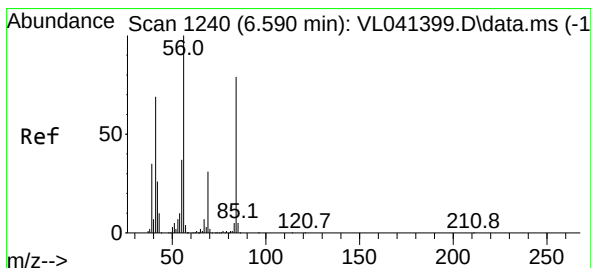
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda



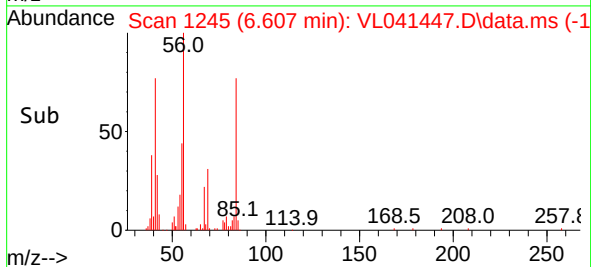
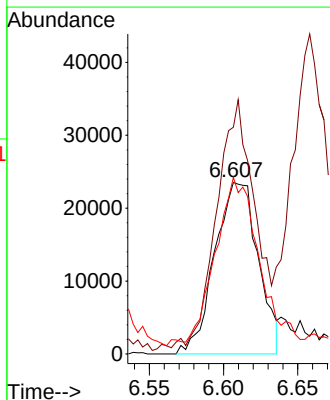
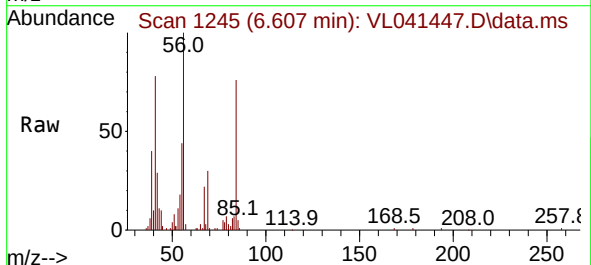
07/30/2024
Supervised By :Semsettin
Yesilyurt

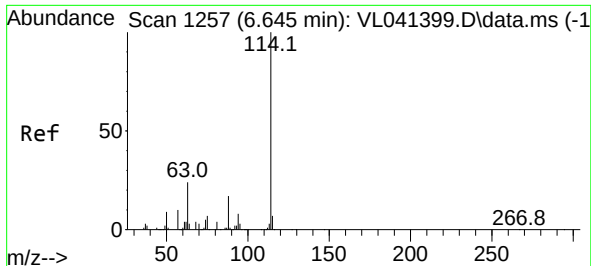
07/30/2024



#30
Cyclohexane
Concen: 0.571 ppbv m
RT: 6.607 min Scan# 1245
Delta R.T. 0.013 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

Tgt Ion: 84 Resp: 47880
Ion Ratio Lower Upper
84 100
56 128.4 111.2 166.8
41 108.6 70.3 105.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 114

Delta R.T. 0.013 min

Lab File: VL041447.D

Acq: 30 Jul 2024 3:13

Instrument :

MSVOA_L

ClientSampleId :

ACVI-IA-05

Tgt Ion:114 Resp: 2931100

Ion Ratio Lower Upper

114 100

63 25.1 20.3 30.5

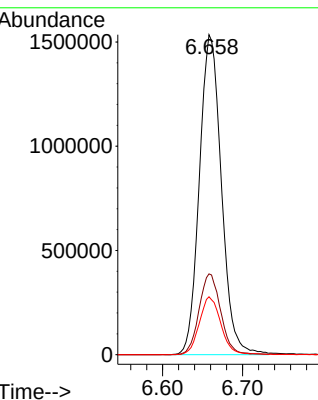
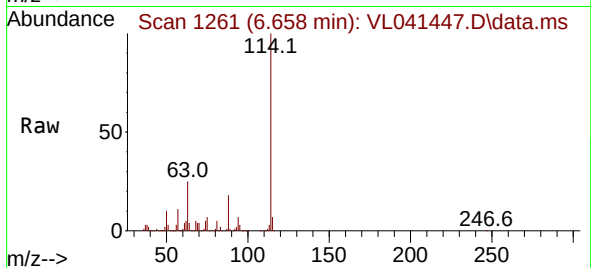
88 17.8 14.3 21.5

Manual Integrations

APPROVED

Reviewed By :Mahesh

Dadoda

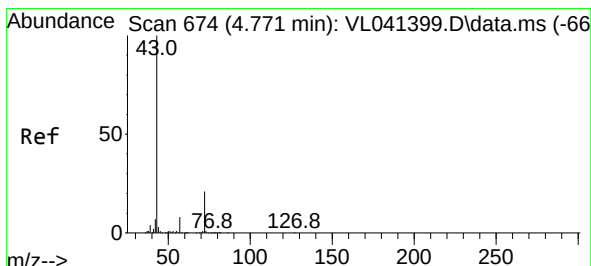
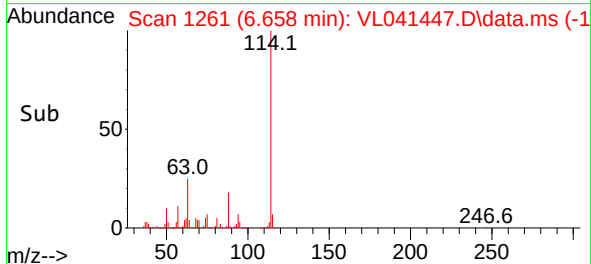


07/30/2024

Supervised By :Semsettin

Yesilyurt

07/30/2024



#34

2-Butanone

Concen: 0.928 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.023 min

Lab File: VL041447.D

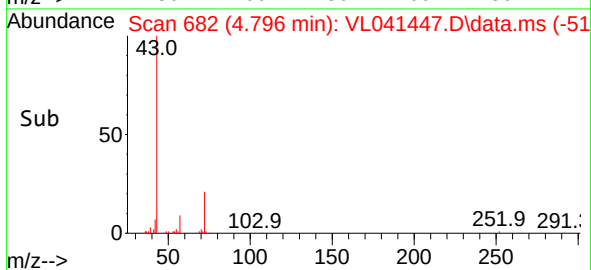
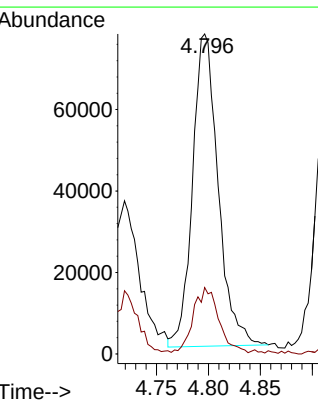
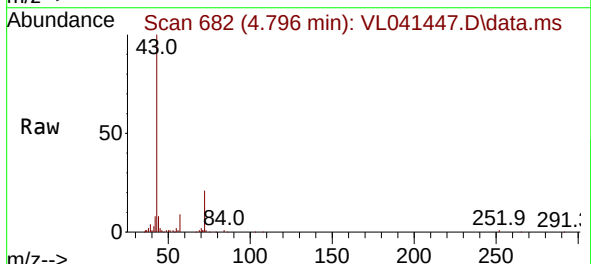
Acq: 30 Jul 2024 3:13

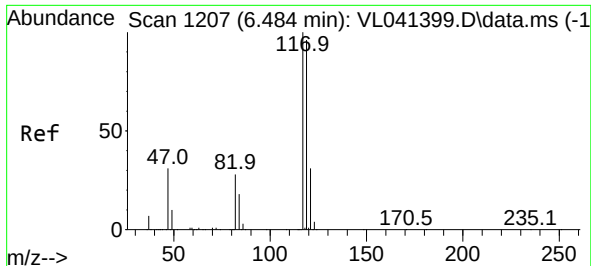
Tgt Ion: 43 Resp: 131522

Ion Ratio Lower Upper

43 100

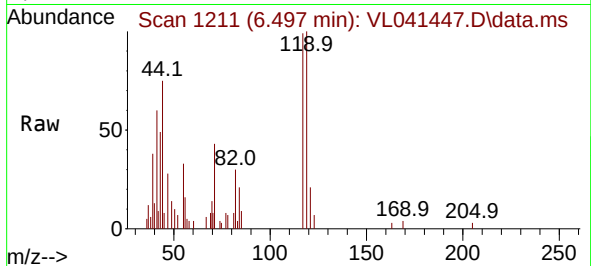
72 22.6 17.3 25.9





#35
Carbon Tetrachloride
Concen: 0.055 ppbv
RT: 6.497 min Scan# 1174
Delta R.T. 0.013 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

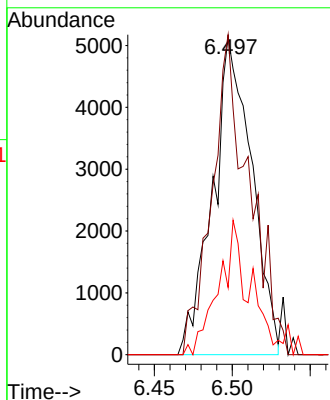
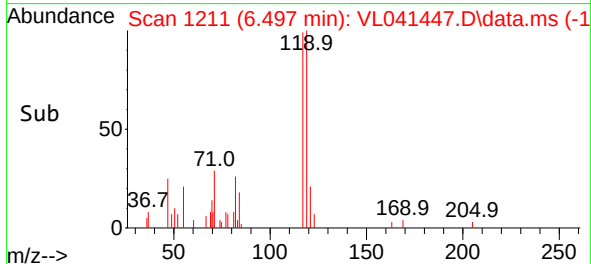
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05



Tgt Ion:117 Resp: 893
Ion Ratio Lower Upper
117 100
119 100.8 76.6 115.0
121 21.2 25.1 37.7

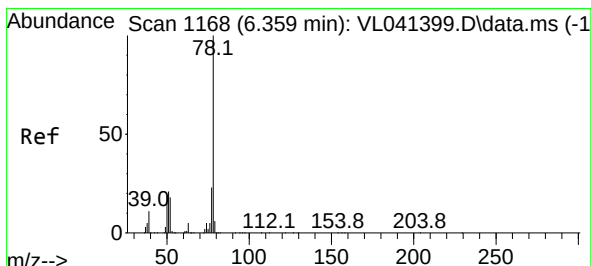
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda



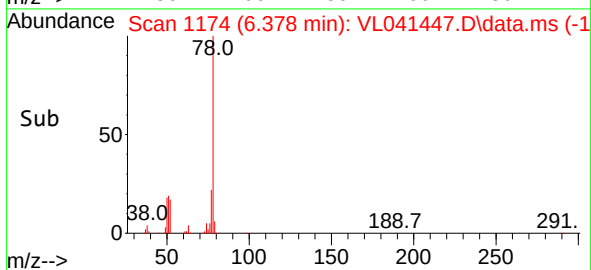
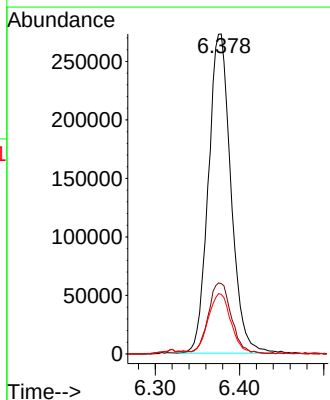
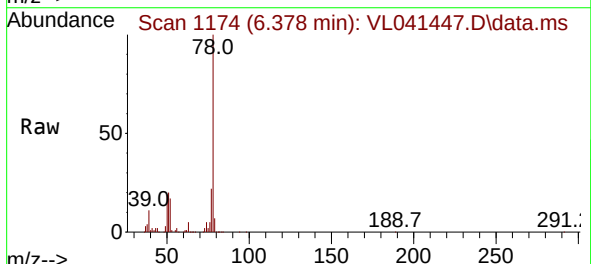
07/30/2024
Supervised By :Semsettin
Yesilyurt

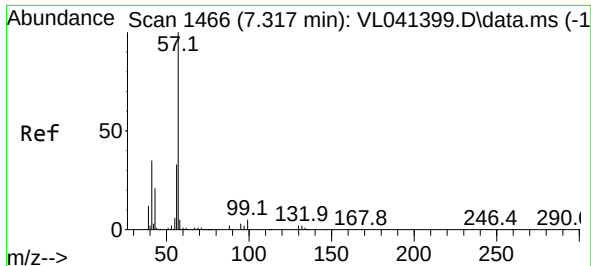
07/30/2024



#36
Benzene
Concen: 2.365 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. 0.019 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

Tgt Ion: 78 Resp: 506427
Ion Ratio Lower Upper
78 100
77 21.7 18.1 27.1
50 18.4 15.5 23.3





#44

2,2,4-Trimethylpentane

Concen: 3.463 ppbv

RT: 7.330 min Scan# 1466

Delta R.T. 0.013 min

Lab File: VL041447.D

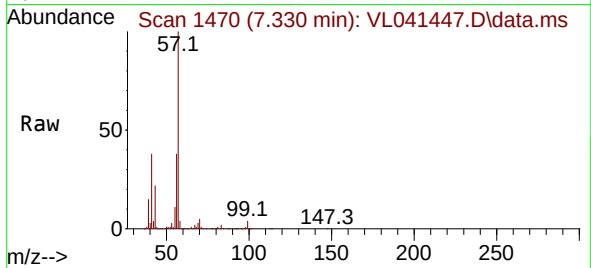
Acq: 30 Jul 2024 3:13

Instrument :

MSVOA_L

ClientSampleId :

ACVI-IA-05



Tgt Ion: 57 Resp: 123887

Ion Ratio Lower Upper

57 100

41 39.6 27.0 40.6

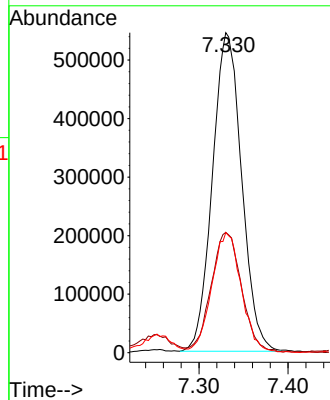
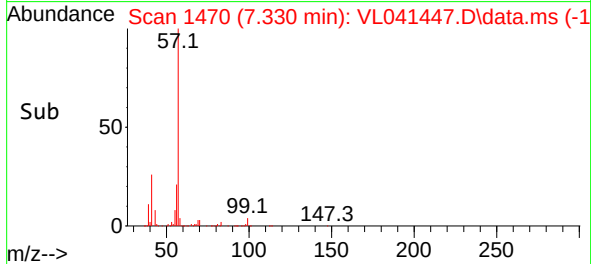
56 38.1 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :Mahesh

Dadoda

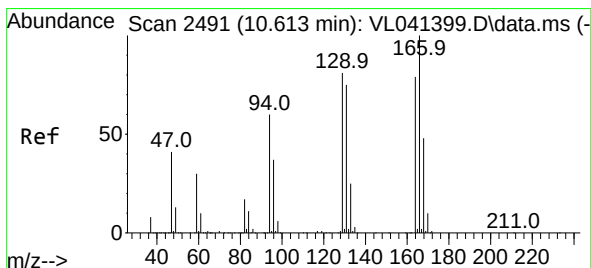


07/30/2024

Supervised By :Semsettin

Yesilyurt

07/30/2024



#52

Tetrachloroethene

Concen: 0.187 ppbv m

RT: 10.622 min Scan# 2494

Delta R.T. 0.013 min

Lab File: VL041447.D

Acq: 30 Jul 2024 3:13

Tgt Ion:164 Resp: 15472

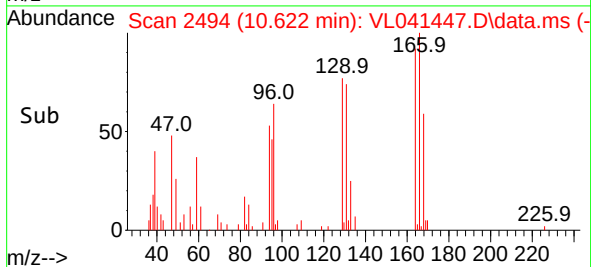
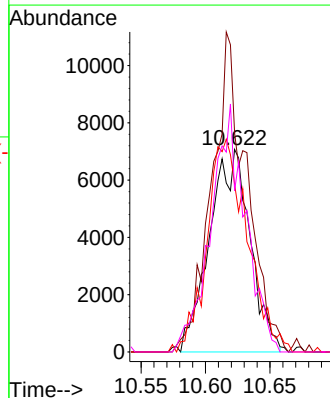
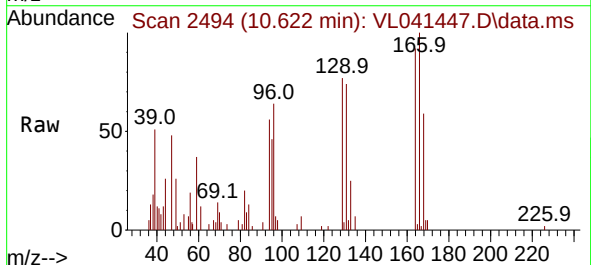
Ion Ratio Lower Upper

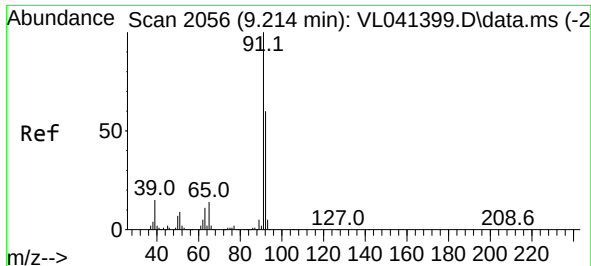
164 100

166 108.1 101.1 151.7

129 82.9 81.7 122.5

131 79.6 76.2 114.4





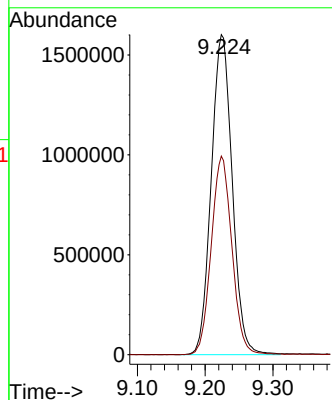
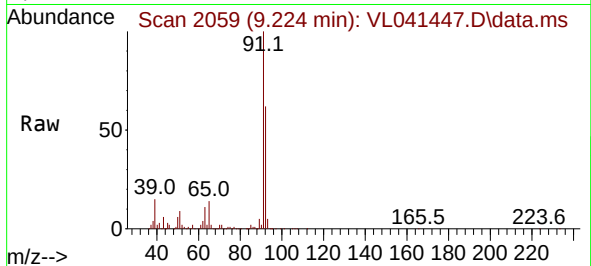
#53
Toluene
Concen: 14.430 ppbv
RT: 9.224 min Scan# 2056
Delta R.T. 0.007 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05

Tgt Ion: 91 Resp: 3442544
Ion Ratio Lower Upper
91 100
92 61.4 48.7 73.1

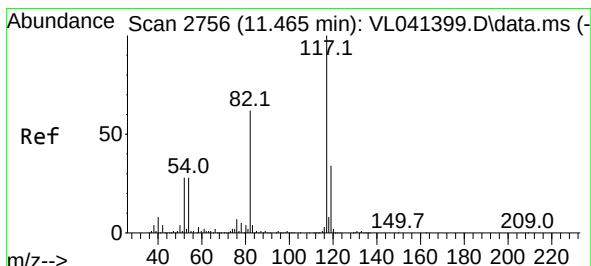
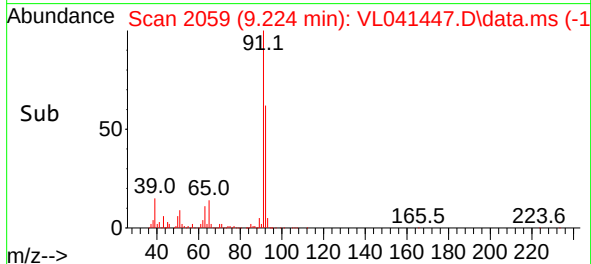
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda



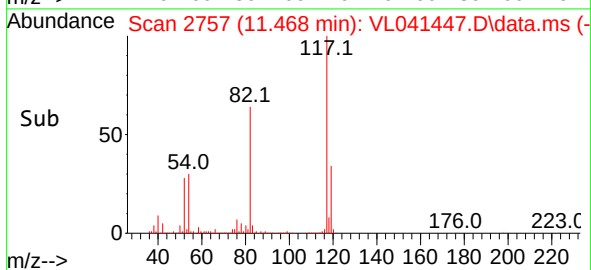
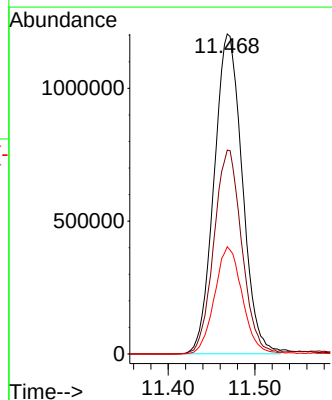
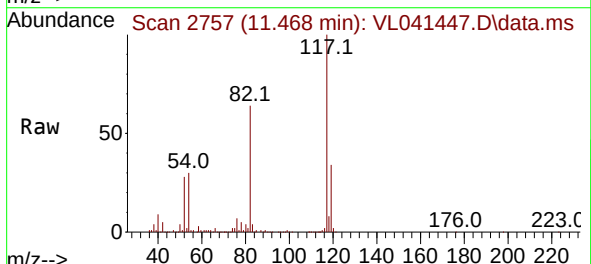
07/30/2024
Supervised By :Semsettin
Yesilyurt

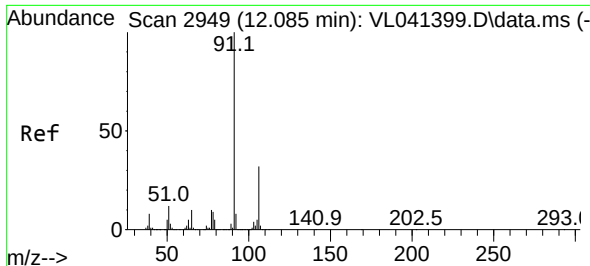
07/30/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.003 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

Tgt Ion:117 Resp: 2721567
Ion Ratio Lower Upper
117 100
82 63.3 51.0 76.6
119 33.4 45.2 67.8#





#58

Ethyl Benzene

Concen: 2.033 ppbv

RT: 12.092 min Scan# 2949

Delta R.T. 0.007 min

Lab File: VL041447.D

Acq: 30 Jul 2024 3:13

Instrument :

MSVOA_L

ClientSampleId :

ACVI-IA-05

Tgt Ion: 91 Resp: 63775

Ion Ratio Lower Upper

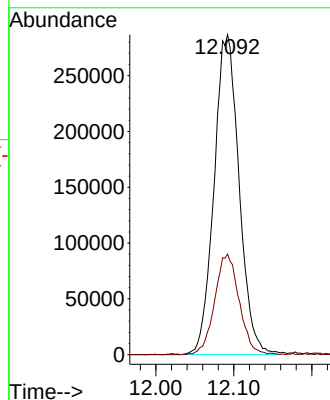
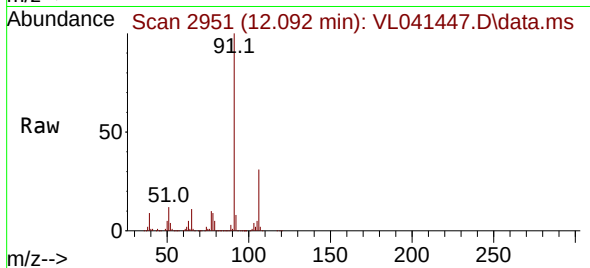
91 100

106 31.4 25.8 38.8

Manual Integrations

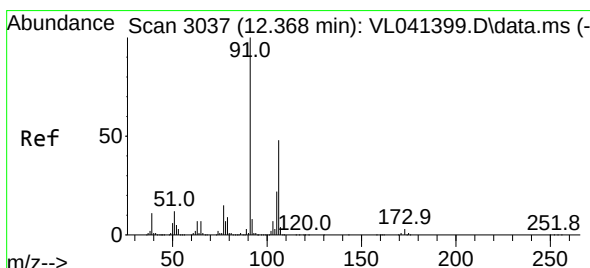
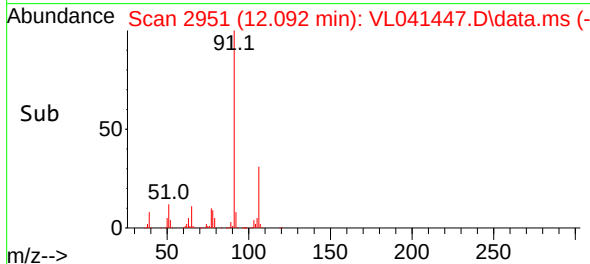
APPROVED

Reviewed By :Mahesh
Dadoda



07/30/2024
Supervised By :Semsettin
Yesilyurt

07/30/2024



#59

m/p-Xylene

Concen: 4.804 ppbv

RT: 12.346 min Scan# 3030

Delta R.T. -0.022 min

Lab File: VL041447.D

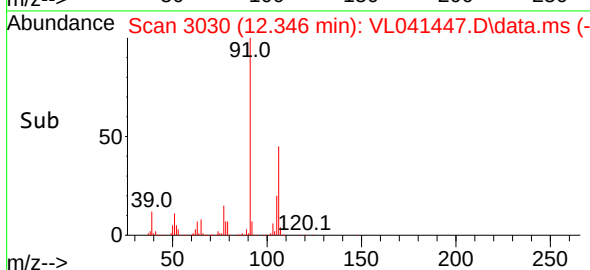
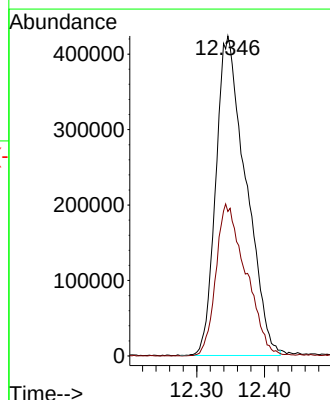
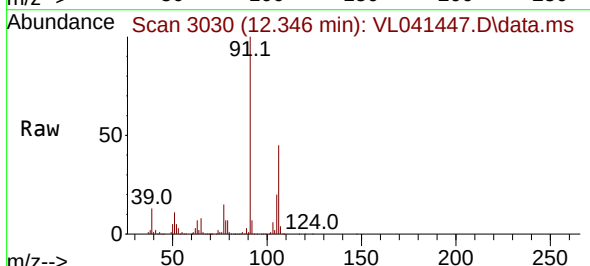
Acq: 30 Jul 2024 3:13

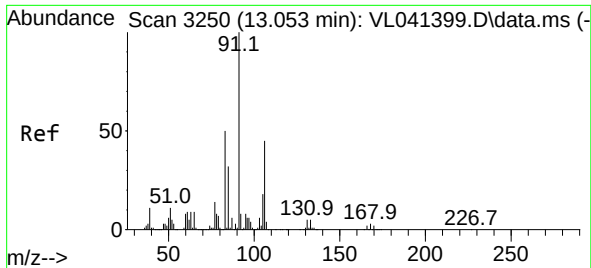
Tgt Ion: 91 Resp: 1300849

Ion Ratio Lower Upper

91 100

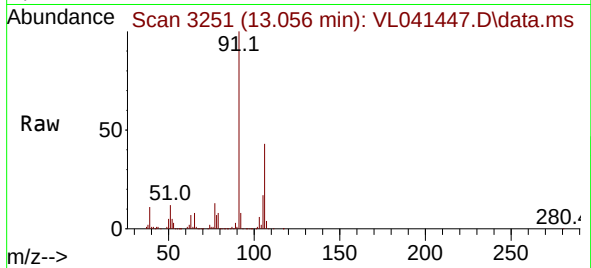
106 47.6 36.3 54.5





#60
o-Xylene
Concen: 1.817 ppbv
RT: 13.056 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

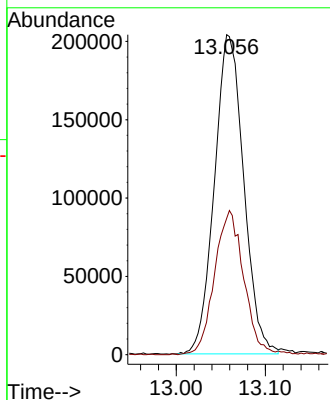
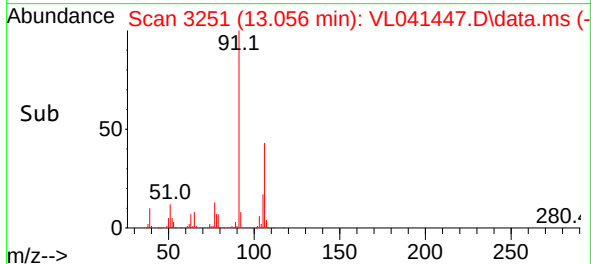
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05



Tgt Ion: 91 Resp: 465569
Ion Ratio Lower Upper
91 100
106 45.7 23.1 69.3

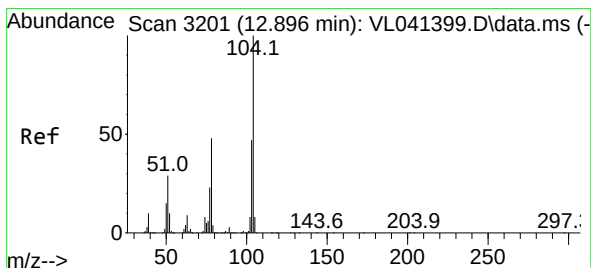
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda

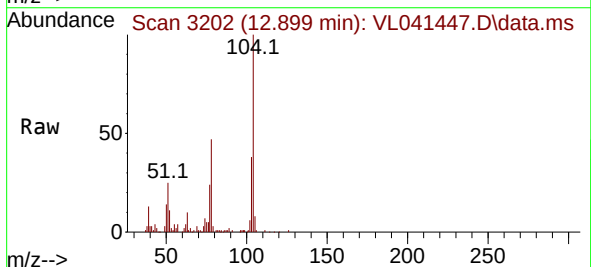


07/30/2024
Supervised By :Semsettin
Yesilyurt

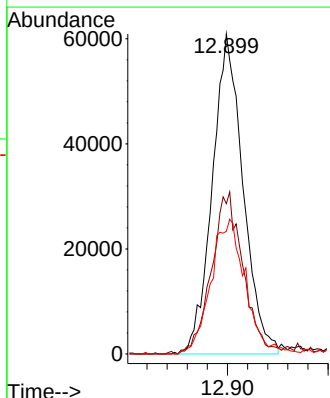
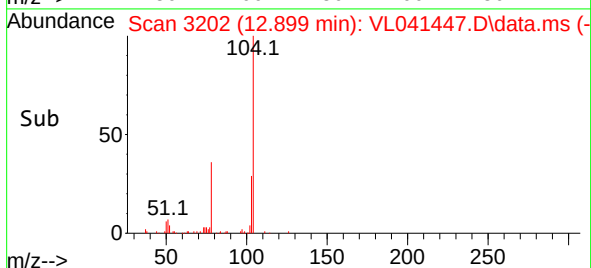
07/30/2024

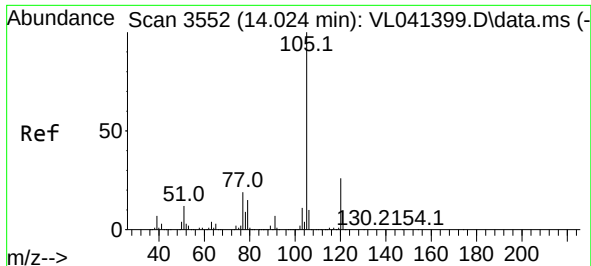


#61
Styrene
Concen: 1.117 ppbv
RT: 12.899 min Scan# 3202
Delta R.T. 0.003 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13



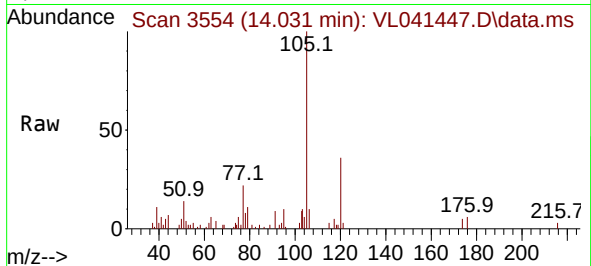
Tgt Ion:104 Resp: 129070
Ion Ratio Lower Upper
104 100
78 52.1 40.8 61.2
103 47.4 38.2 57.4





#62
Isopropylbenzene
Concen: 0.099 ppbv m
RT: 14.031 min Scan# 3554
Delta R.T. 0.003 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

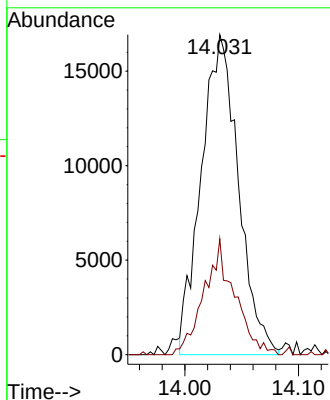
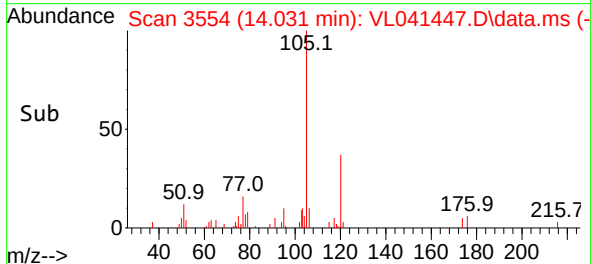
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05



Tgt Ion:105 Resp: 38580
Ion Ratio Lower Upper
105 100
120 29.6 21.0 31.4

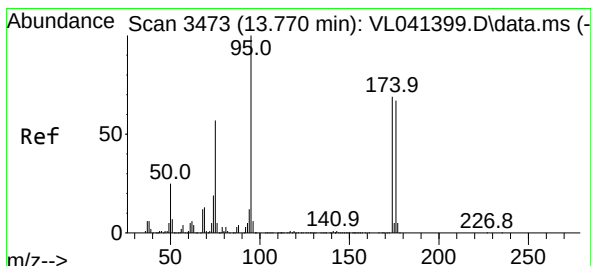
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda

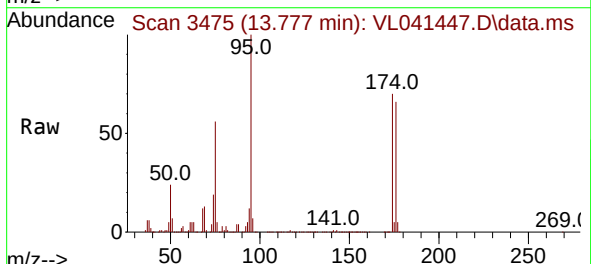


07/30/2024
Supervised By :Semsettin
Yesilyurt

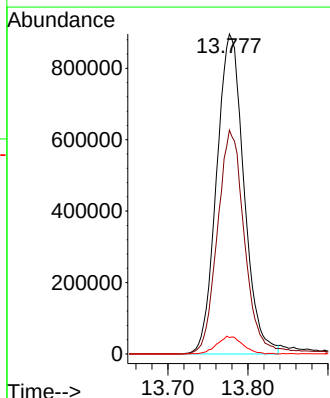
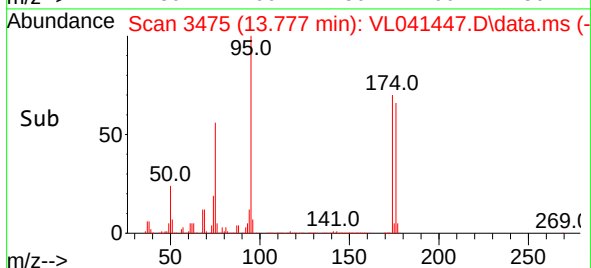
07/30/2024

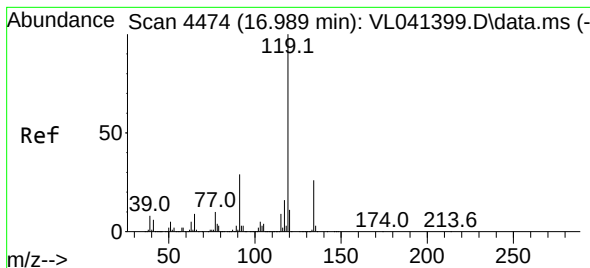


#68
1-Bromo-4-Fluorobenzene
Concen: 10.140 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.003 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13



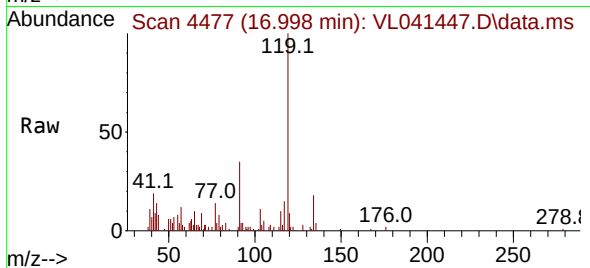
Tgt Ion: 95 Resp: 2123718
Ion Ratio Lower Upper
95 100
174 71.0 56.3 84.5
175 5.2 4.0 6.0





#69
p-Isopropyltoluene
Concen: 0.095 ppbv
RT: 16.998 min Scan# 4477
Delta R.T. 0.003 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

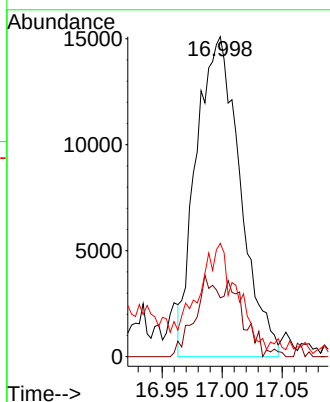
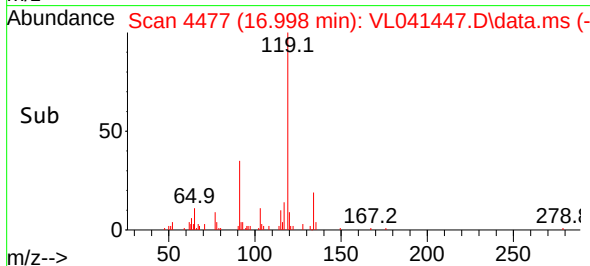
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05



Tgt Ion:119 Resp: 38338
Ion Ratio Lower Upper
119 100
134 25.6 20.5 30.7
91 29.1 23.2 34.8

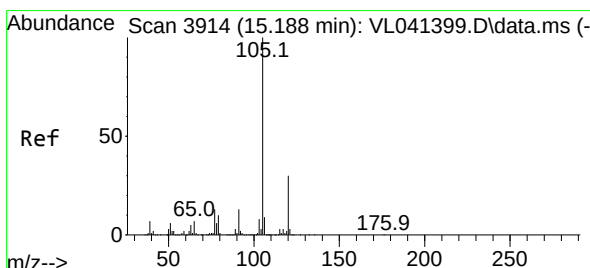
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda

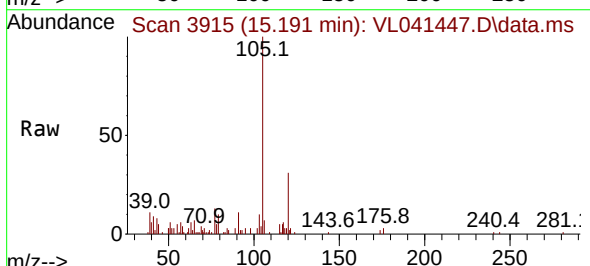


07/30/2024
Supervised By :Semsettin
Yesilyurt

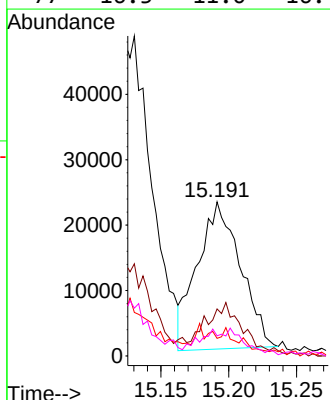
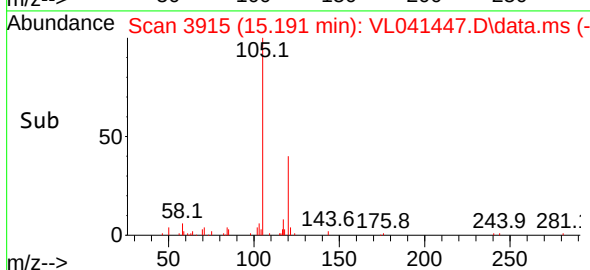
07/30/2024

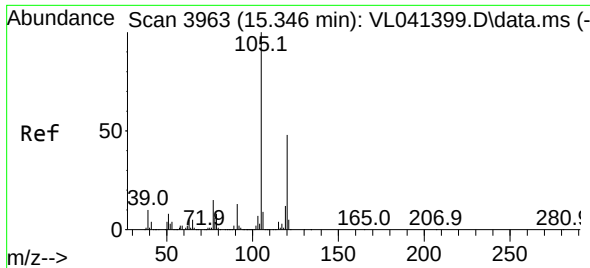


#72
4-Ethyltoluene
Concen: 0.165 ppbv
RT: 15.191 min Scan# 3915
Delta R.T. 0.000 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13



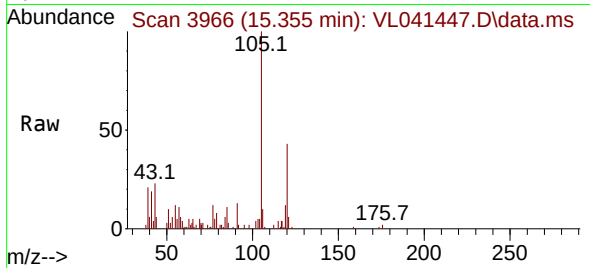
Tgt Ion:105 Resp: 49773
Ion Ratio Lower Upper
105 100
120 33.1 24.2 36.2
91 17.1 10.4 15.6#
77 16.3 11.0 16.4





#73
1,3,5-Trimethylbenzene
Concen: 0.157 ppbv m
RT: 15.355 min Scan# 3963
Delta R.T. 0.007 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13

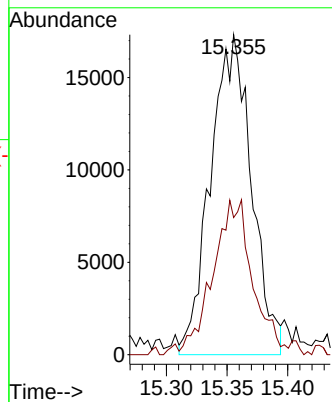
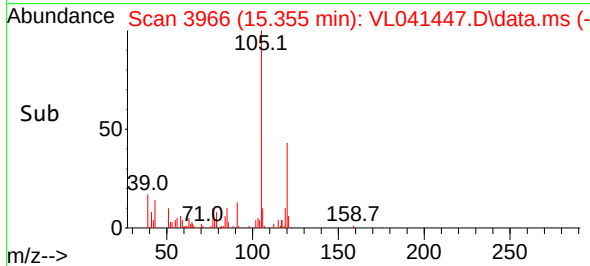
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-05



Tgt Ion:105 Resp: 40709
Ion Ratio Lower Upper
105 100
120 42.8 38.6 57.8

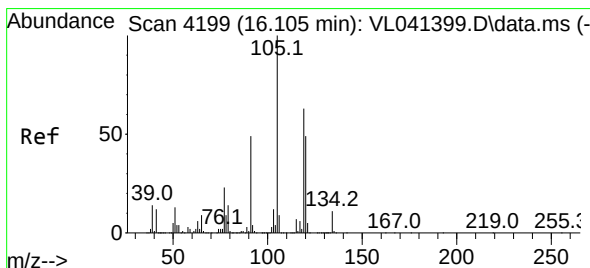
Manual Integrations
APPROVED

Reviewed By :Mahesh
Dadoda

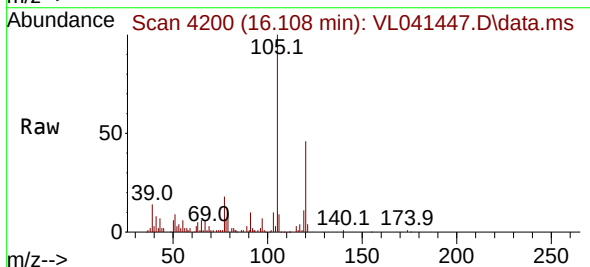


07/30/2024
Supervised By :Semsettin
Yesilyurt

07/30/2024



#74
1,2,4-Trimethylbenzene
Concen: 0.531 ppbv
RT: 16.108 min Scan# 4200
Delta R.T. 0.000 min
Lab File: VL041447.D
Acq: 30 Jul 2024 3:13



Tgt Ion:105 Resp: 160419
Ion Ratio Lower Upper
105 100
120 46.3 39.5 59.3
91 10.3 39.8 59.8#
77 16.6 18.2 27.4#

