

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041444.D
 Acq On : 30 Jul 2024 1:11
 Operator : SY/MD
 Sample : P3342-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ACVI-IA-04

Manual Integrations
 APPROVED

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

Quant Time: Jul 30 02:57:18 2024

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	5.198	49	1048126	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.658	114	2834572	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.468	117	2594932	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1988460	9.957	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.735	85	90554	0.502	ppbv	93
4) Chloromethane	2.822	50	45631	0.688	ppbv	90
10) Heptane	7.584	43	570412	4.429	ppbv	100
11) Trichlorofluoromethane	3.568	101	35994	0.225	ppbv	95
13) Ethanol	3.246	45	2878922	561.959	ppbv	97
15) Acetone	3.468	43	4522786	37.978	ppbv	# 83
19) Isopropyl Alcohol	3.584	45	1294606	18.595	ppbv	# 1
20) Methylene Chloride	3.938	84	91184	2.053	ppbv	92
26) Hexane	5.217	57	1727804	17.605	ppbv	# 42
29) Chloroform	5.282	83	20531	0.128	ppbv	85
30) Cyclohexane	6.610	84	97906	1.225	ppbv	87
34) 2-Butanone	4.790	43	189493	1.382	ppbv	97
35) Carbon Tetrachloride	6.497	117	9792	0.063	ppbv	# 95
36) Benzene	6.372	78	882730	4.262	ppbv	99
44) 2,2,4-Trimethylpentane	7.330	57	1460577	4.222	ppbv	# 86
52) Tetrachloroethene	10.616	164	10051m	0.126	ppbv	
53) Toluene	9.224	91	4829863	20.935	ppbv	99
58) Ethyl Benzene	12.085	91	889290	2.973	ppbv	96
59) m/p-Xylene	12.346	91	1577061	6.108	ppbv	97
60) o-Xylene	13.060	91	583373m	2.388	ppbv	
61) Styrene	12.899	104	265634	2.411	ppbv	98
62) Isopropylbenzene	14.027	105	44374m	0.120	ppbv	
72) 4-Ethyltoluene	15.198	105	68497	0.238	ppbv	# 92
73) 1,3,5-Trimethylbenzene	15.352	105	46323	0.187	ppbv	88
74) 1,2,4-Trimethylbenzene	16.108	105	185025	0.642	ppbv	# 68
79) Naphthalene	21.394	128	32209m	0.127	ppbv	

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

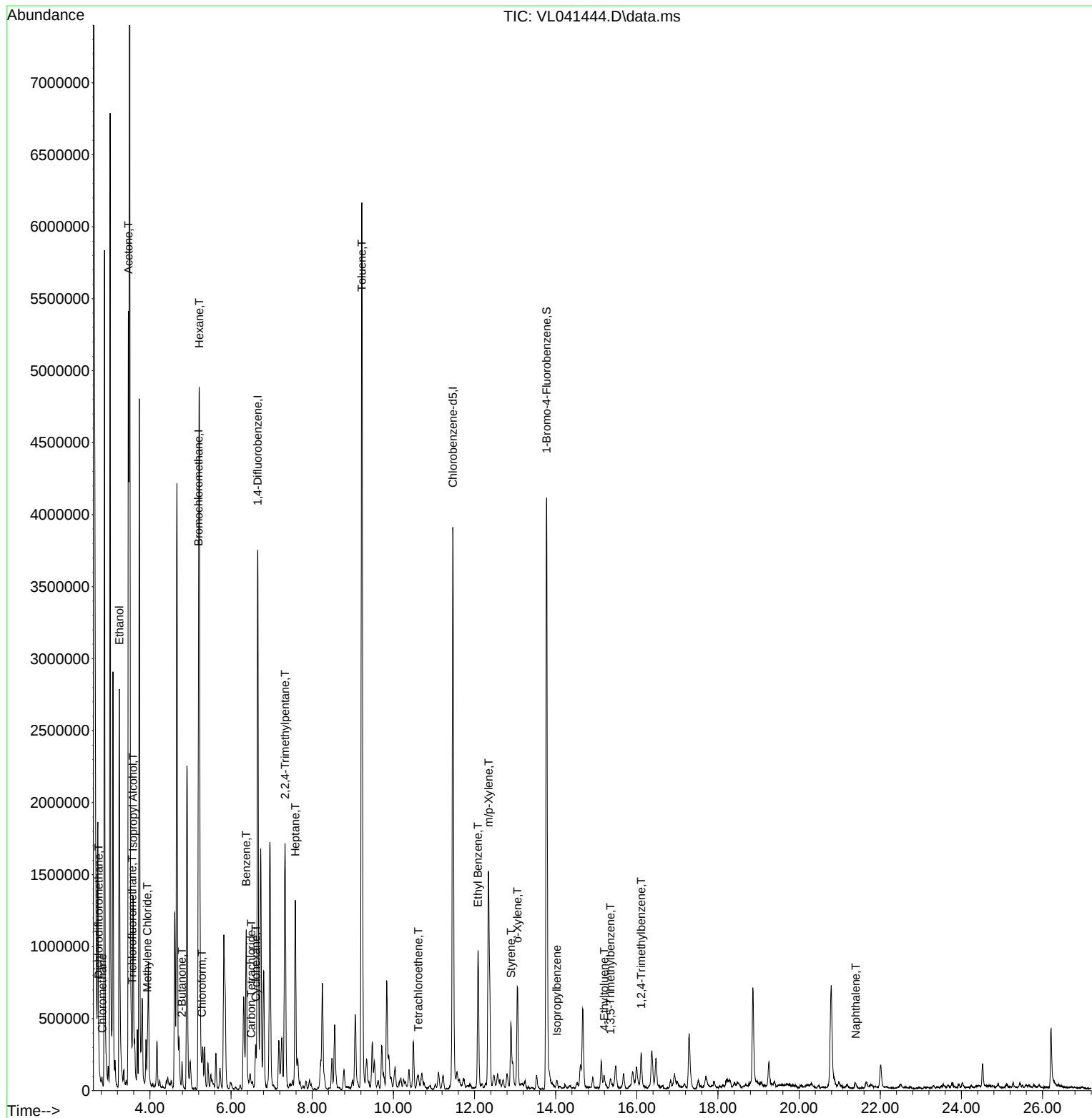
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
Data File : VL041444.D
Acq On : 30 Jul 2024 1:11
Operator : SY/MD
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Misc : 400mL/MSVOA_L
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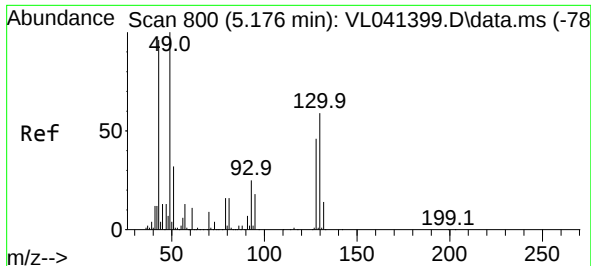
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-04

Quant Time: Jul 30 02:57:18 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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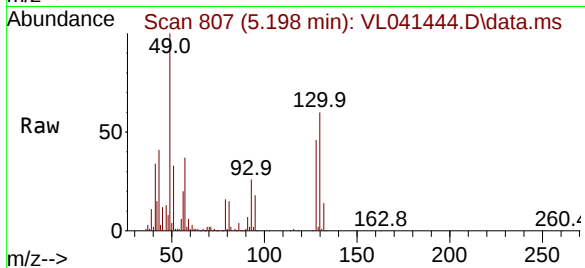
Reviewed By : Mahesh Dadoda 07/30/2024
Supervised By : Semsettin Yesilyurt 07/30/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.019 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

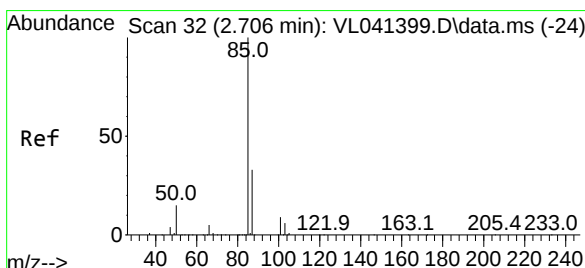
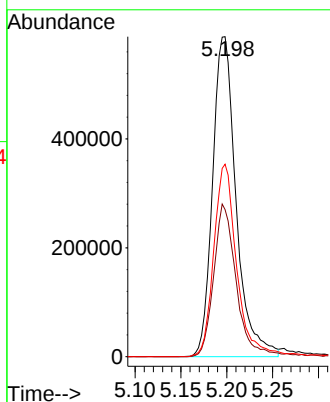
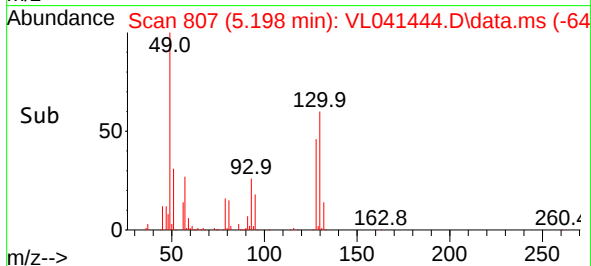
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-04



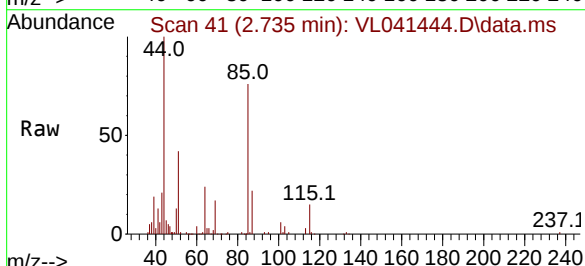
Tgt Ion: 49 Resp: 1048120
Ion Ratio Lower Upper
49 100
128 46.5 23.8 71.4
130 59.6 30.8 92.4

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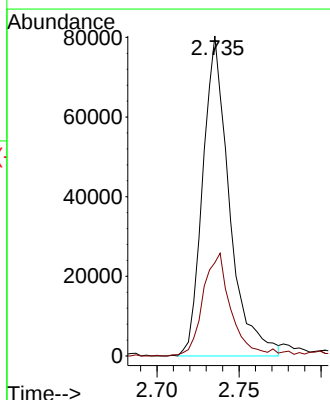
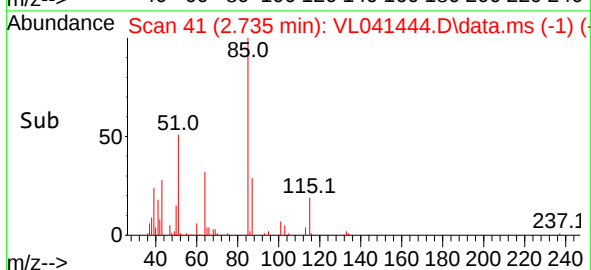
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024

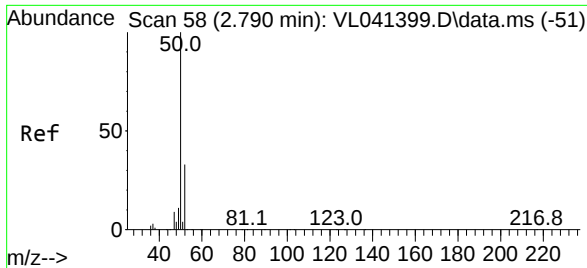


#2
Dichlorodifluoromethane
Concen: 0.502 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.026 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11



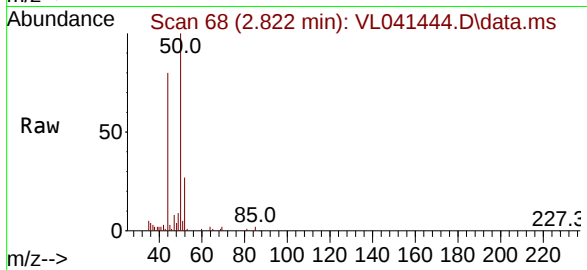
Tgt Ion: 85 Resp: 90554
Ion Ratio Lower Upper
85 100
87 28.8 26.0 39.0





#4
Chloromethane
Concen: 0.688 ppbv
RT: 2.822 min Scan# 61
Delta R.T. 0.029 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

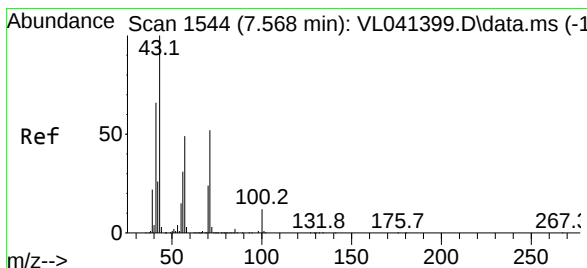
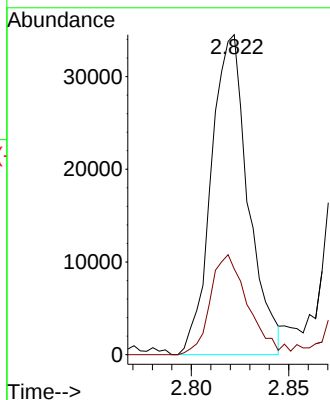
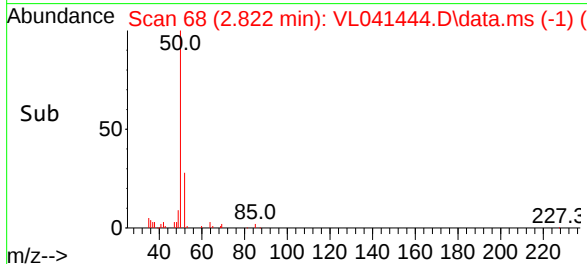
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-04



Tgt Ion: 50 Resp: 4563
Ion Ratio Lower Upper
50 100
52 26.8 26.1 39.1

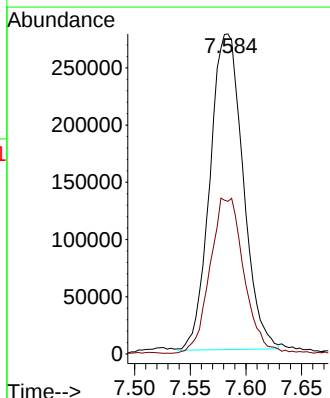
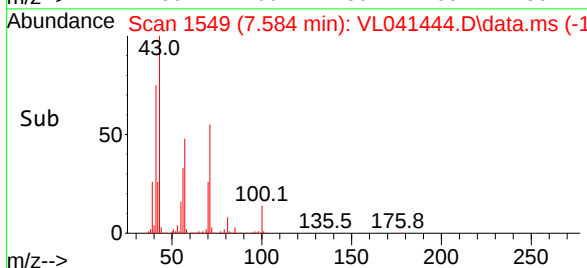
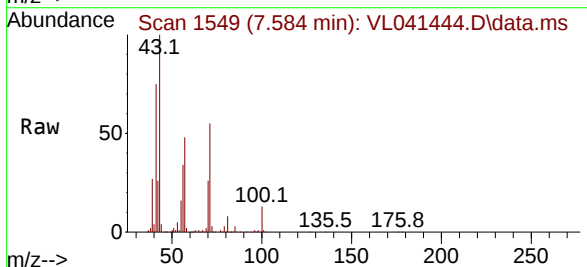
Manual Integrations
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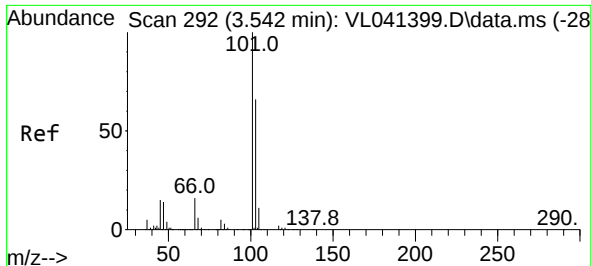
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#10
Heptane
Concen: 4.429 ppbv
RT: 7.584 min Scan# 1549
Delta R.T. 0.013 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

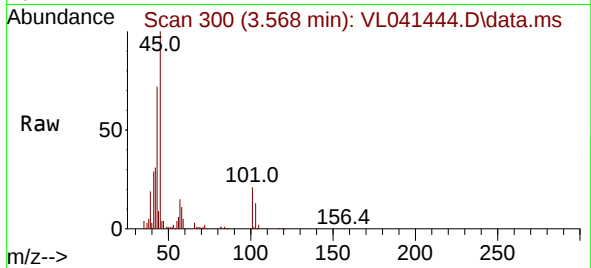
Tgt Ion: 43 Resp: 570412
Ion Ratio Lower Upper
43 100
57 50.7 40.5 60.7





#11
Trichlorofluoromethane
Concen: 0.225 ppbv
RT: 3.568 min Scan# 30
Delta R.T. 0.022 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

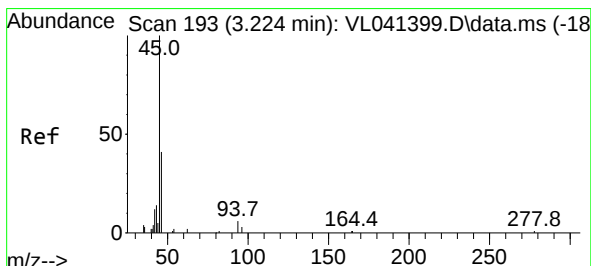
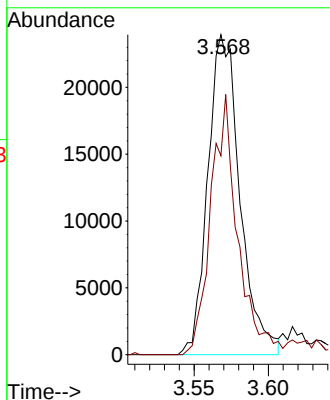
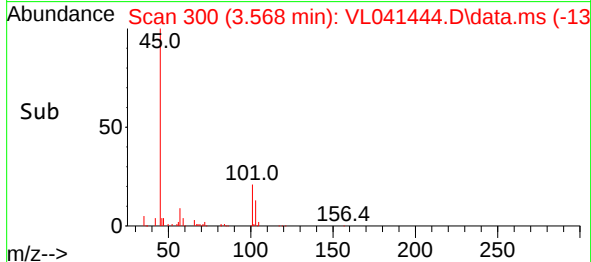
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-04



Tgt Ion:101 Resp: 35994
Ion Ratio Lower Upper
101 100
103 62.1 52.6 79.0

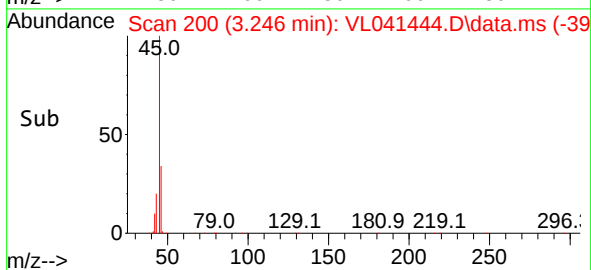
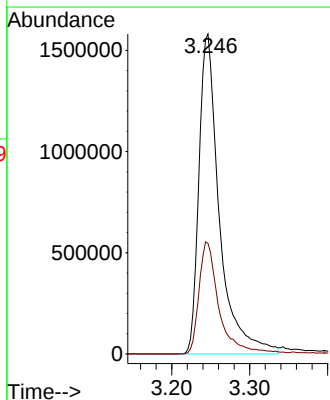
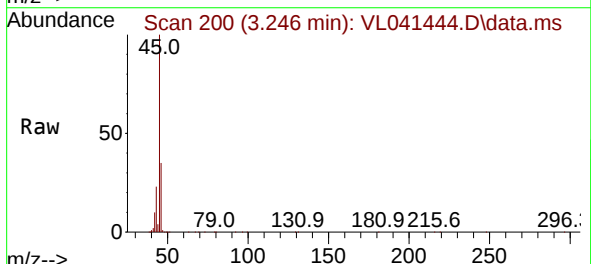
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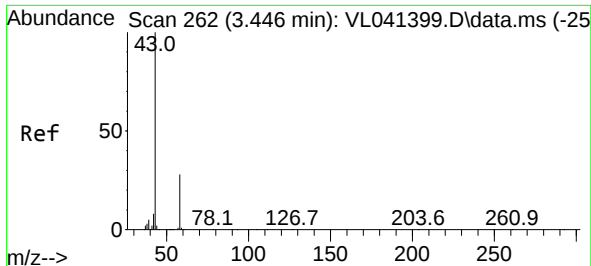
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#13
Ethanol
Concen: 561.959 ppbv
RT: 3.246 min Scan# 200
Delta R.T. 0.019 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

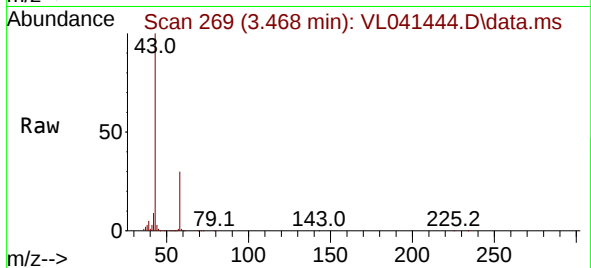
Tgt Ion: 45 Resp: 2878922
Ion Ratio Lower Upper
45 100
46 35.1 13.4 53.4





#15
Acetone
Concen: 37.978 ppbv
RT: 3.468 min Scan# 20
Delta R.T. 0.016 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

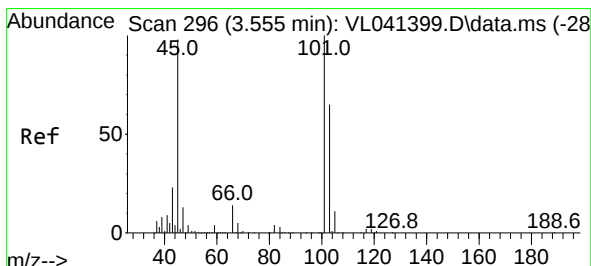
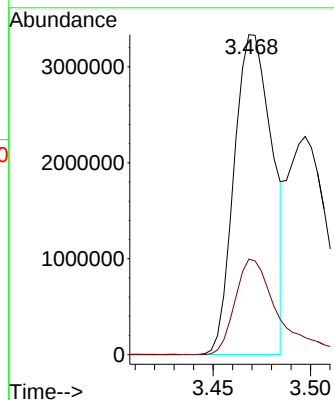
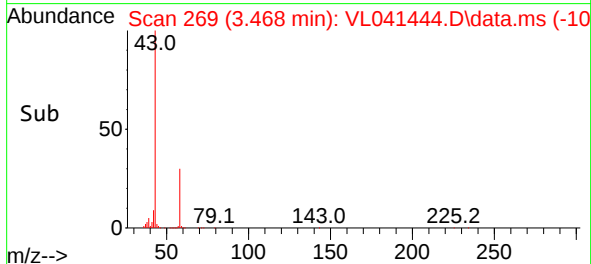
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-04



Tgt Ion: 43 Resp: 4522780
Ion Ratio Lower Upper
43 100
58 35.5 21.4 32.2

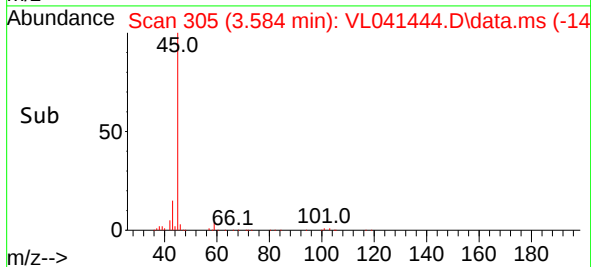
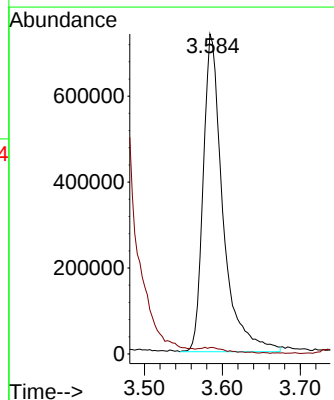
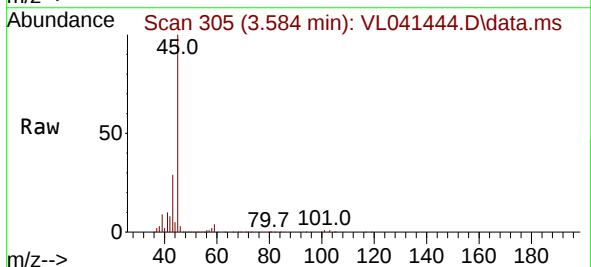
Manual Integrations
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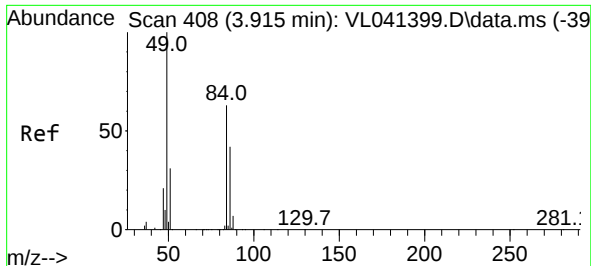
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#19
Isopropyl Alcohol
Concen: 18.595 ppbv
RT: 3.584 min Scan# 305
Delta R.T. 0.022 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

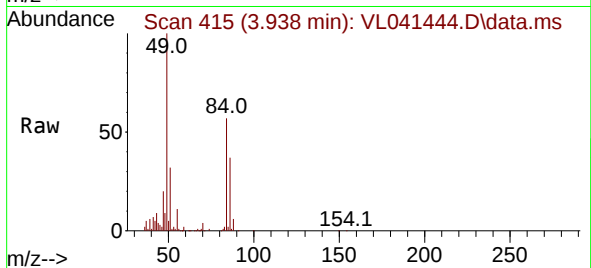
Tgt Ion: 45 Resp: 1294606
Ion Ratio Lower Upper
45 100
58 123.8 1.9 2.9





#20
Methylene Chloride
Concen: 2.053 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.019 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

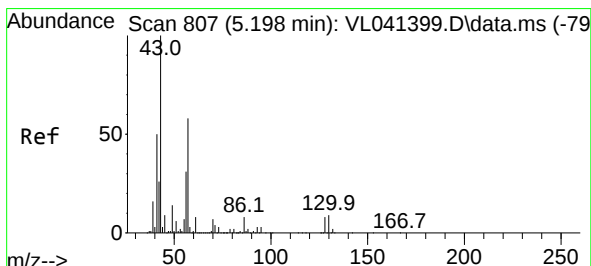
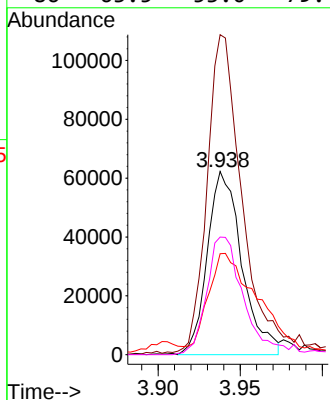
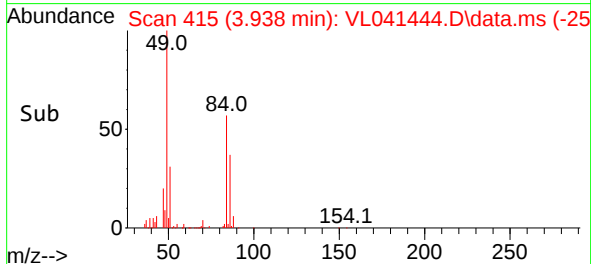
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-04



Tgt Ion: 84 Resp: 91184
Ion Ratio Lower Upper
84 100
49 172.8 126.6 190.0
51 50.5 38.6 58.0
86 63.5 53.0 79.4

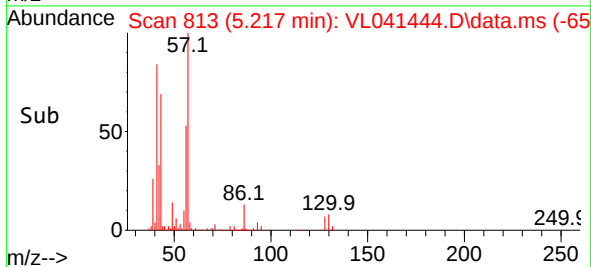
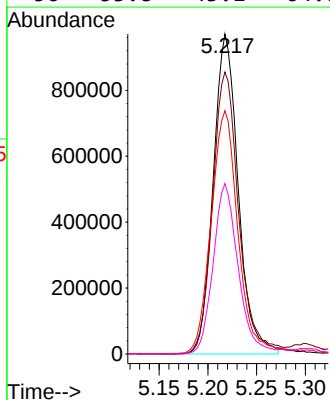
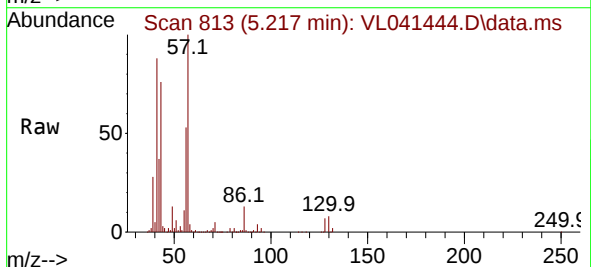
Manual Integrations
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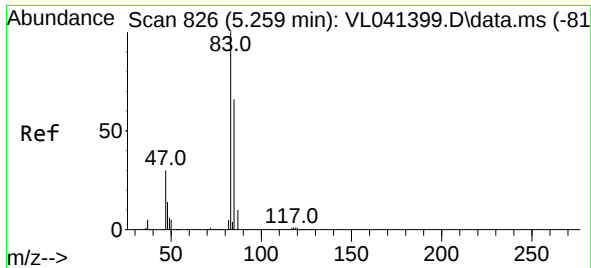
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#26
Hexane
Concen: 17.605 ppbv
RT: 5.217 min Scan# 813
Delta R.T. 0.019 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

Tgt Ion: 57 Resp: 1727804
Ion Ratio Lower Upper
57 100
41 93.2 74.0 111.0
43 83.1 193.6 290.4#
56 53.8 43.1 64.7





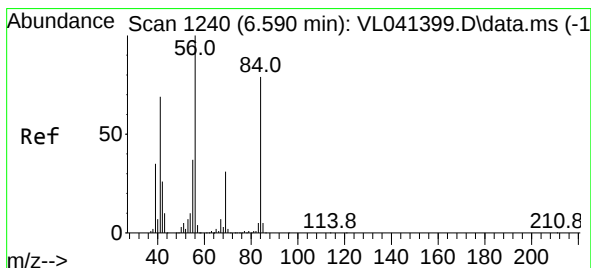
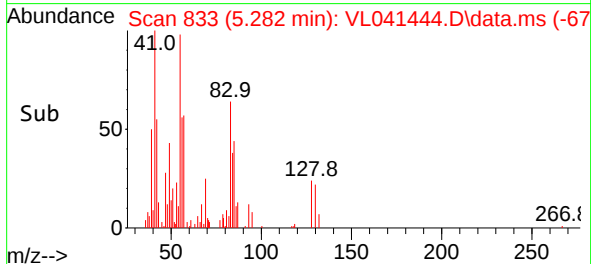
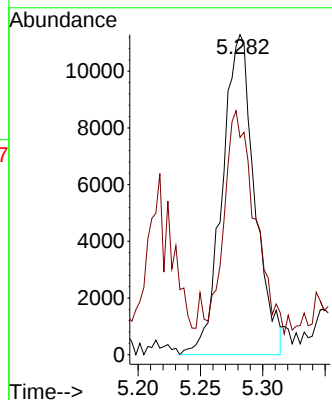
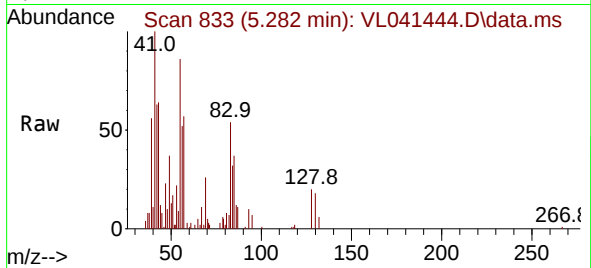
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Chloroform
Concen: 0.128 ppbv
RT: 5.282 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-04

Tgt Ion: 83 Resp: 2053
Ion Ratio Lower Upper
83 100
85 54.8 53.1 79.7

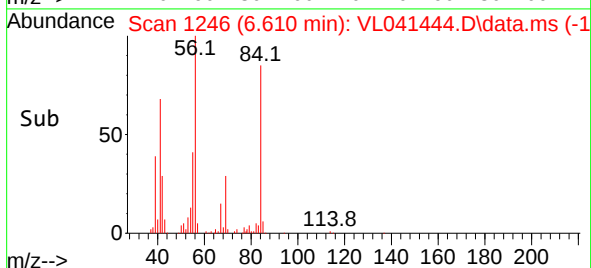
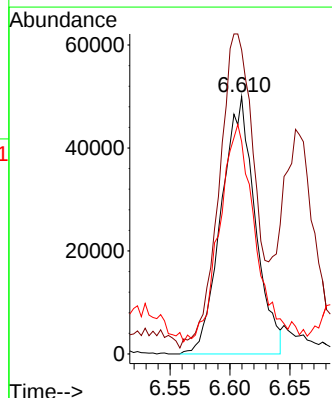
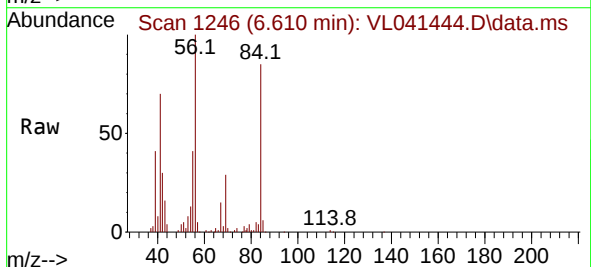
Manual Integrations
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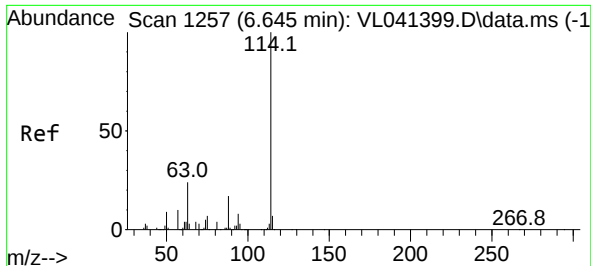
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#30
Cyclohexane
Concen: 1.225 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. 0.016 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

Tgt Ion: 84 Resp: 97906
Ion Ratio Lower Upper
84 100
56 117.5 111.2 166.8
41 92.3 70.3 105.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 1

Delta R.T. 0.013 min

Lab File: VL041444.D

Acq: 30 Jul 2024 1:11

Instrument :

MSVOA_L

ClientSampleId :

ACVI-IA-04

Tgt Ion:114 Resp: 283457

Ion Ratio Lower Upper

114 100

63 25.2 20.3 30.5

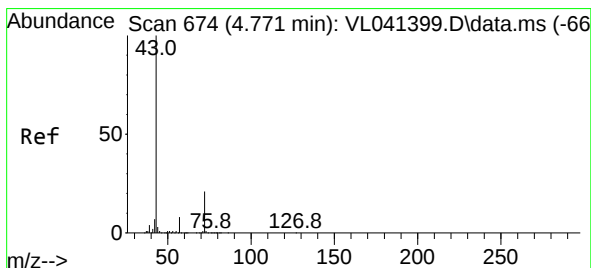
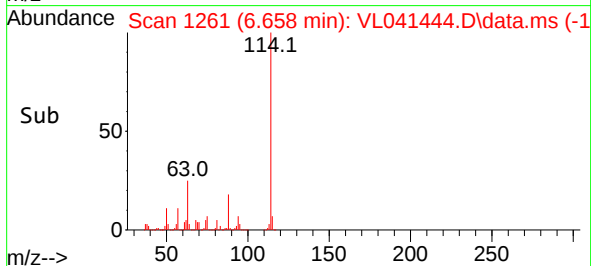
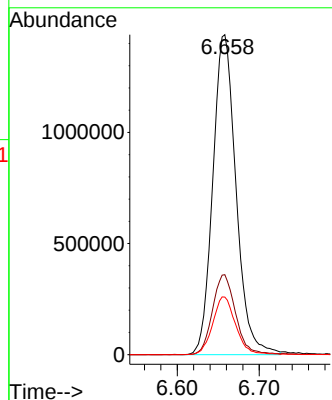
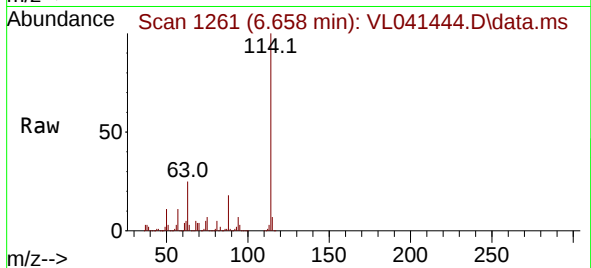
88 18.0 14.3 21.5

Manual Integrations

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Reviewed By :Mahesh Dadoda 07/30/2024

Supervised By :Semsettin Yesilyurt 07/30/2024



#34

2-Butanone

Concen: 1.382 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.016 min

Lab File: VL041444.D

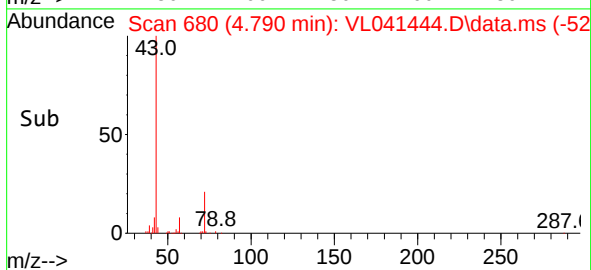
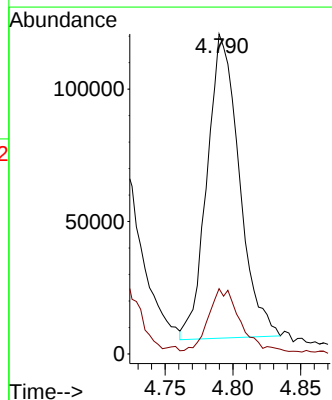
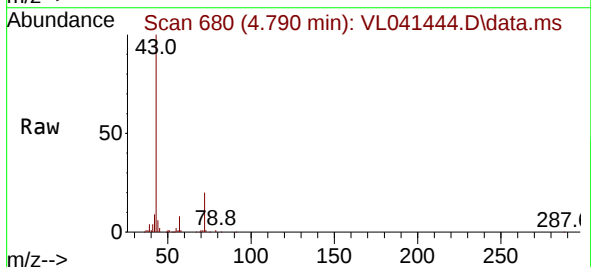
Acq: 30 Jul 2024 1:11

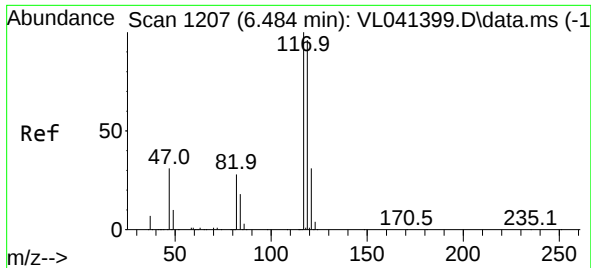
Tgt Ion: 43 Resp: 189493

Ion Ratio Lower Upper

43 100

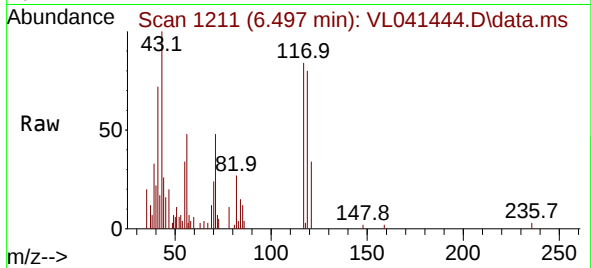
72 23.2 17.3 25.9





#35
Carbon Tetrachloride
Concen: 0.063 ppbv
RT: 6.497 min Scan# 1172
Delta R.T. 0.013 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

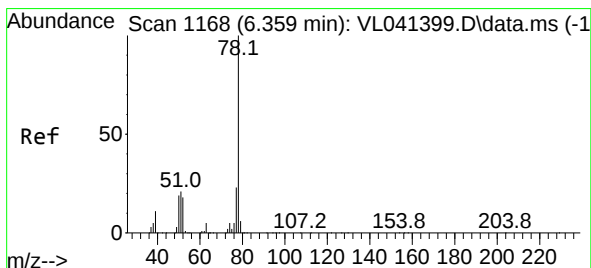
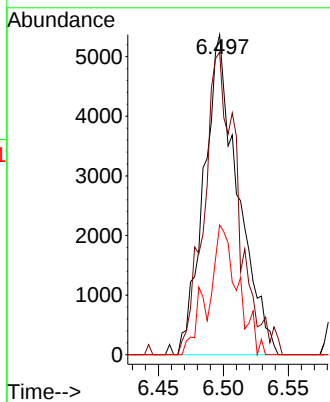
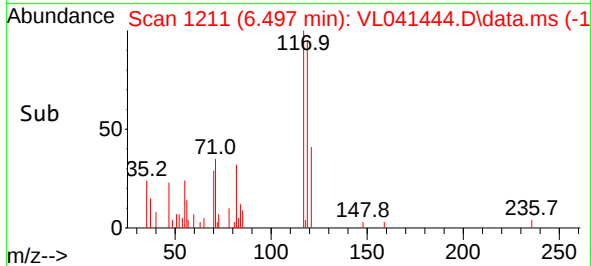
Instrument : MSVOA_L
ClientSampleId : ACVI-IA-04



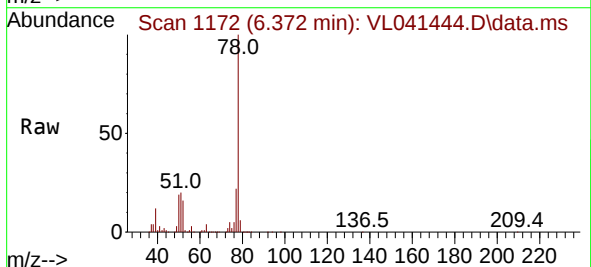
Tgt Ion: 117 Resp: 9792
Ion Ratio Lower Upper
117 100
119 94.6 76.6 115.0
121 40.5 25.1 37.7

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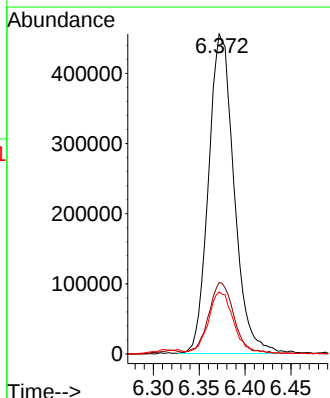
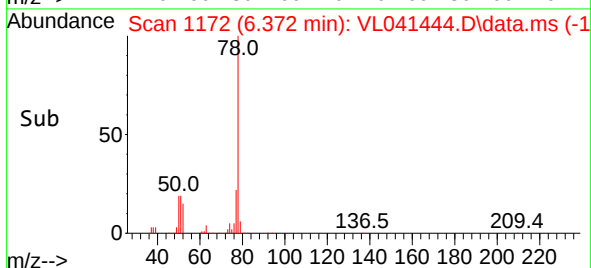
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024

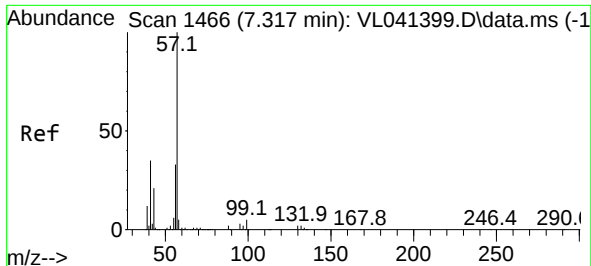


#36
Benzene
Concen: 4.262 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. 0.013 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11



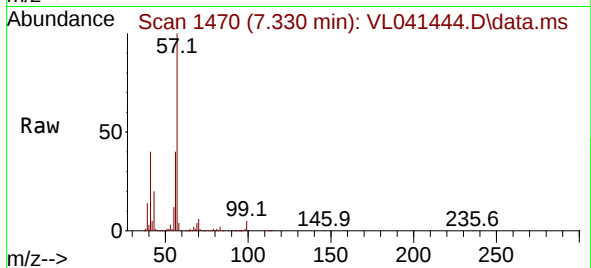
Tgt Ion: 78 Resp: 882730
Ion Ratio Lower Upper
78 100
77 22.0 18.1 27.1
50 19.1 15.5 23.3





#44
2,2,4-Trimethylpentane
Concen: 4.222 ppbv
RT: 7.330 min Scan# 1466
Delta R.T. 0.013 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

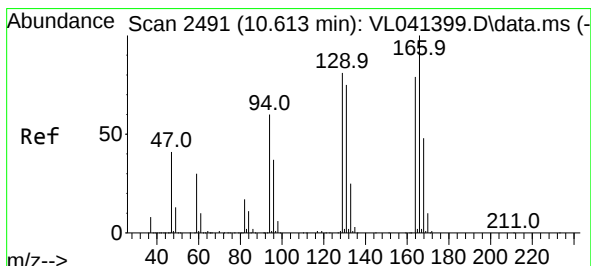
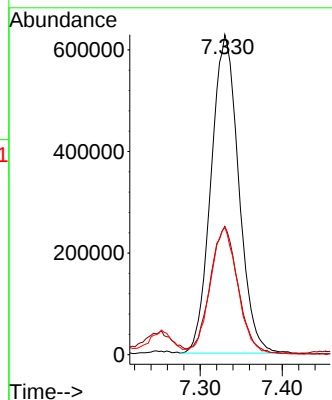
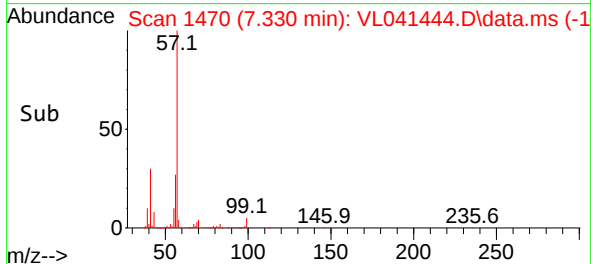
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-04



Tgt Ion: 57 Resp: 146057
Ion Ratio Lower Upper
57 100
41 41.4 27.0 40.6
56 40.0 25.2 37.8

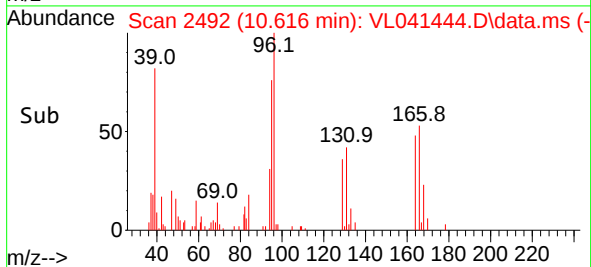
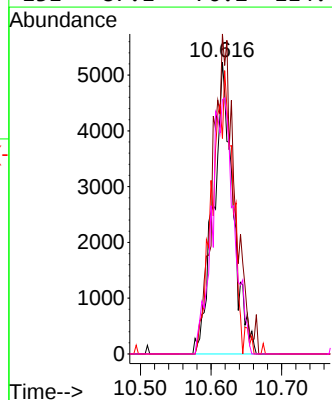
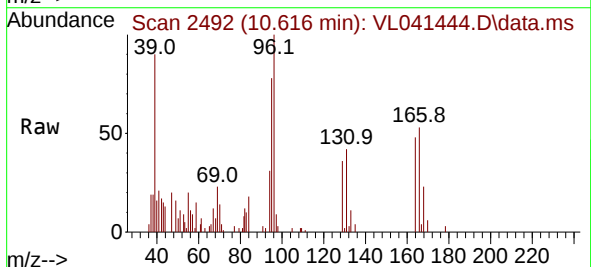
Manual Integrations
APPROVED

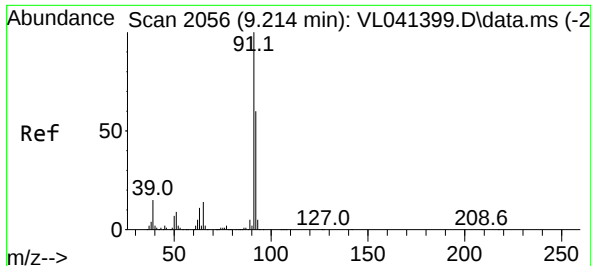
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#52
Tetrachloroethene
Concen: 0.126 ppbv m
RT: 10.616 min Scan# 2492
Delta R.T. 0.006 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

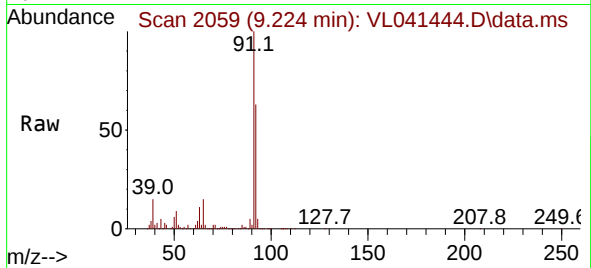
Tgt Ion:164 Resp: 10051
Ion Ratio Lower Upper
164 100
166 109.6 101.1 151.7
129 73.8 81.7 122.5
131 87.1 76.2 114.4





#53
Toluene
Concen: 20.935 ppbv
RT: 9.224 min Scan# 2056
Delta R.T. 0.006 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

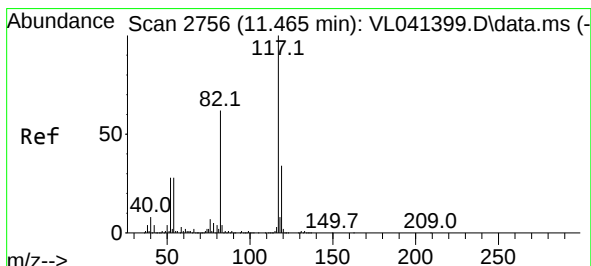
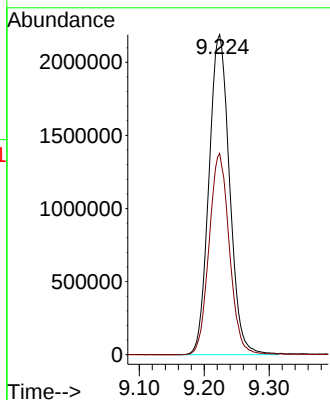
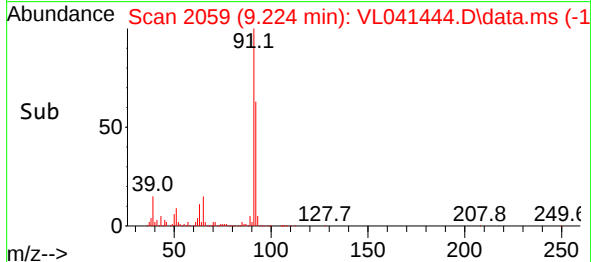
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-04



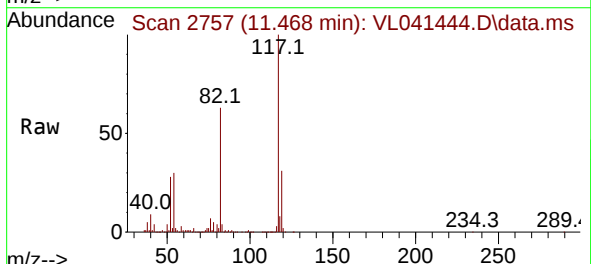
Tgt Ion: 91 Resp: 482986
Ion Ratio Lower Upper
91 100
92 62.0 48.7 73.1

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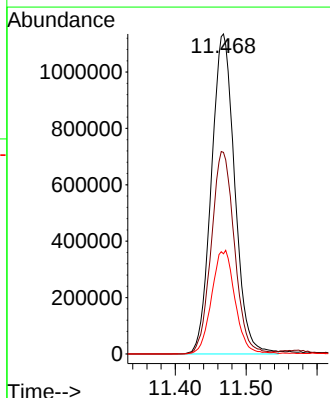
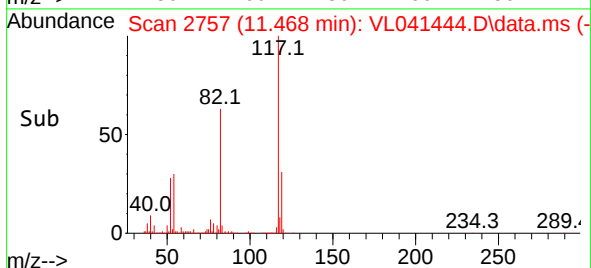
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024

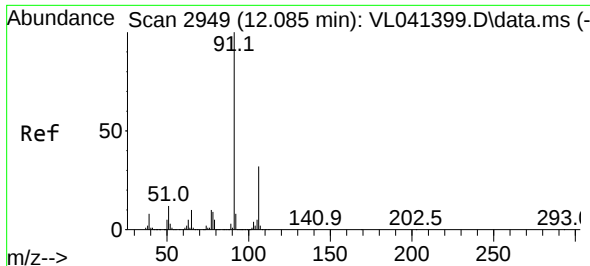


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.003 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11



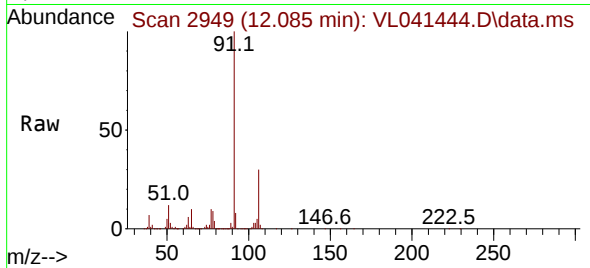
Tgt Ion:117 Resp: 2594932
Ion Ratio Lower Upper
117 100
82 63.0 51.0 76.6
119 32.8 45.2 67.8#





#58
Ethyl Benzene
Concen: 2.973 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. -0.000 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

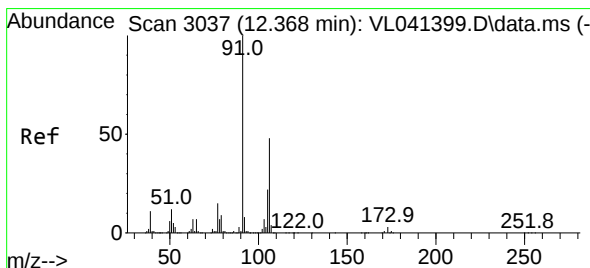
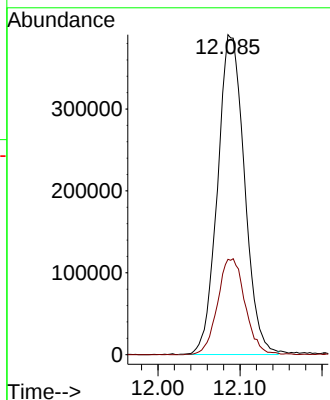
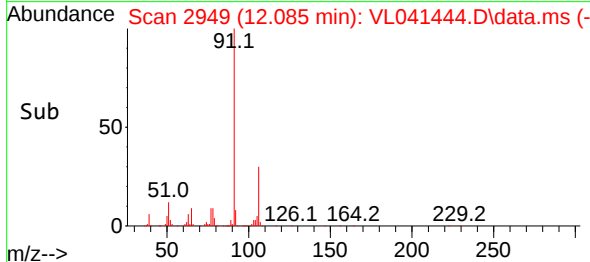
Instrument : MSVOA_L
ClientSampleId : ACVI-IA-04



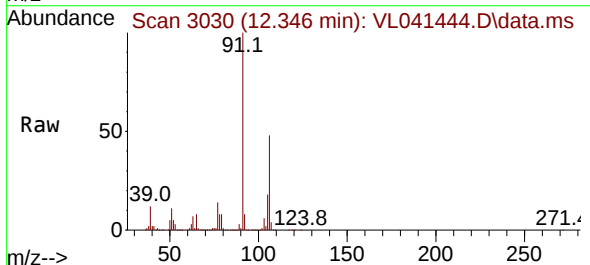
Tgt Ion: 91 Resp: 889290
Ion Ratio Lower Upper
91 100
106 29.8 25.8 38.8

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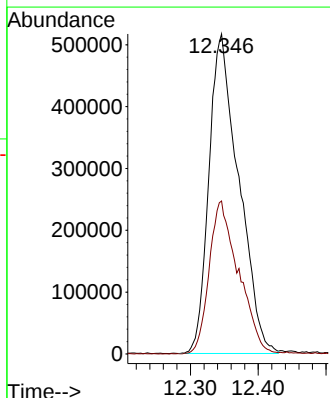
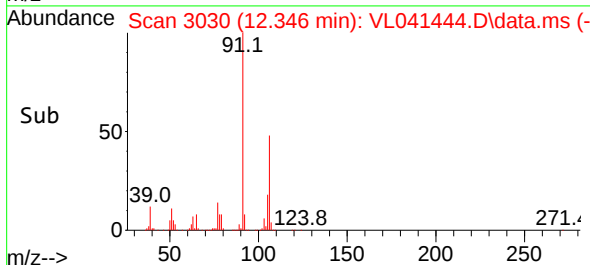
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024

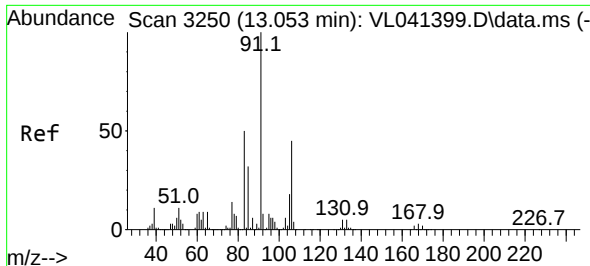


#59
m/p-Xylene
Concen: 6.108 ppbv
RT: 12.346 min Scan# 3030
Delta R.T. -0.023 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11



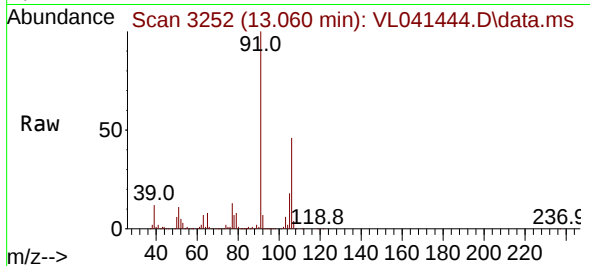
Tgt Ion: 91 Resp: 1577061
Ion Ratio Lower Upper
91 100
106 47.6 36.3 54.5





#60
o-Xylene
Concen: 2.388 ppbv m
RT: 13.060 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

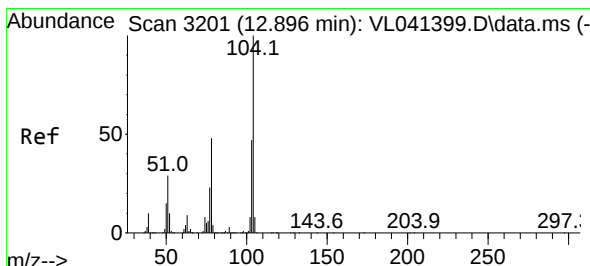
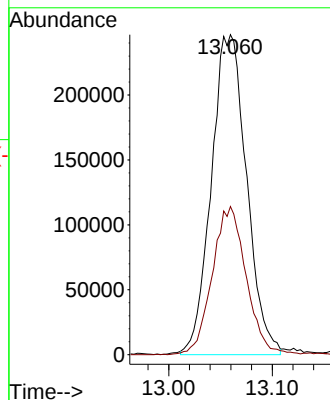
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-04



Tgt Ion: 91 Resp: 58337
Ion Ratio Lower Upper
91 100
106 44.9 23.1 69.3

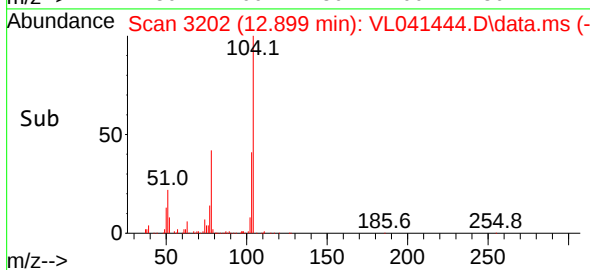
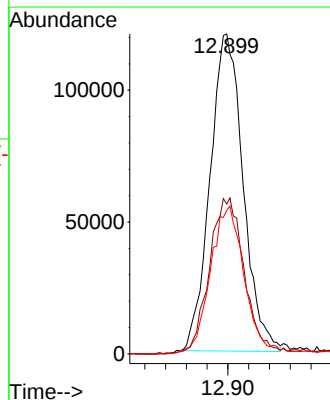
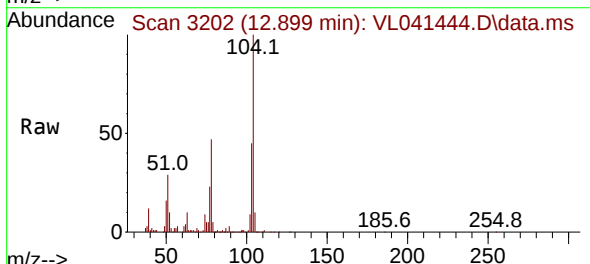
Manual Integrations
APPROVED

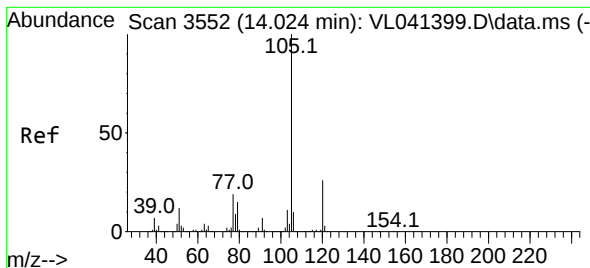
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#61
Styrene
Concen: 2.411 ppbv
RT: 12.899 min Scan# 3202
Delta R.T. 0.003 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

Tgt Ion:104 Resp: 265634
Ion Ratio Lower Upper
104 100
78 52.8 40.8 61.2
103 48.5 38.2 57.4





#62

Isopropylbenzene

Concen: 0.120 ppbv m

RT: 14.027 min Scan# 3552

Delta R.T. -0.000 min

Lab File: VL041444.D

Acq: 30 Jul 2024 1:11

Instrument :

MSVOA_L

ClientSampleId :

ACVI-IA-04

Tgt Ion:105 Resp: 44374

Ion Ratio Lower Upper

105 100

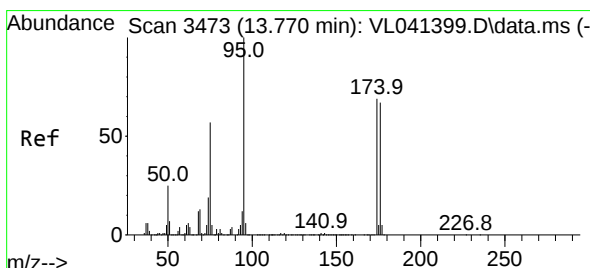
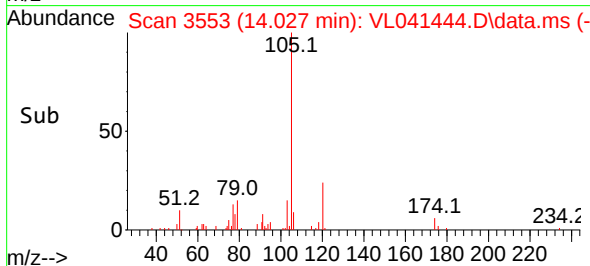
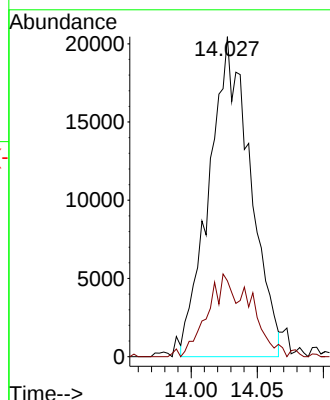
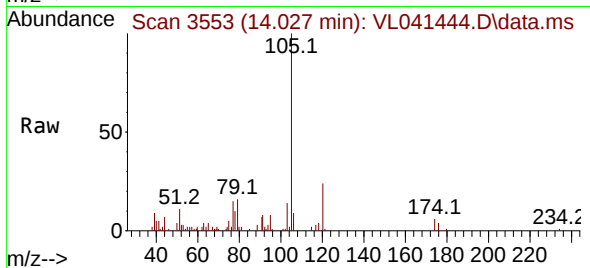
120 0.0 21.0 31.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/30/2024

Supervised By :Semsettin Yesilyurt 07/30/2024



#68

1-Bromo-4-Fluorobenzene

Concen: 9.957 ppbv

RT: 13.777 min Scan# 3475

Delta R.T. 0.003 min

Lab File: VL041444.D

Acq: 30 Jul 2024 1:11

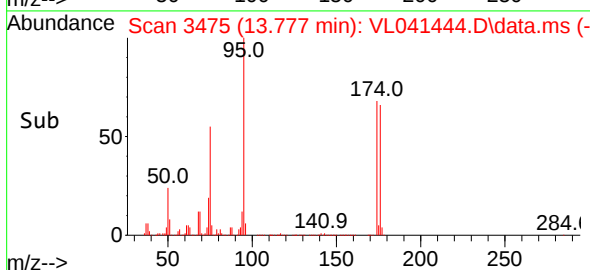
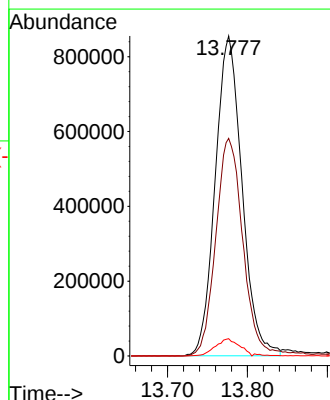
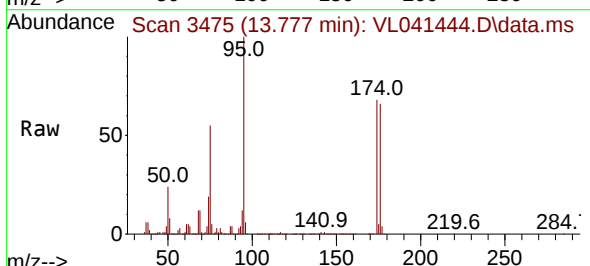
Tgt Ion: 95 Resp: 1988460

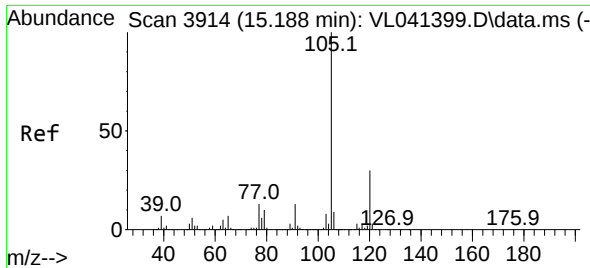
Ion Ratio Lower Upper

95 100

174 70.5 56.3 84.5

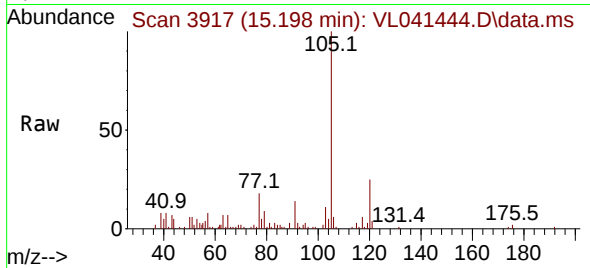
175 5.1 4.0 6.0





#72
4-Ethyltoluene
Concen: 0.238 ppbv
RT: 15.198 min Scan# 3914
Delta R.T. 0.006 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

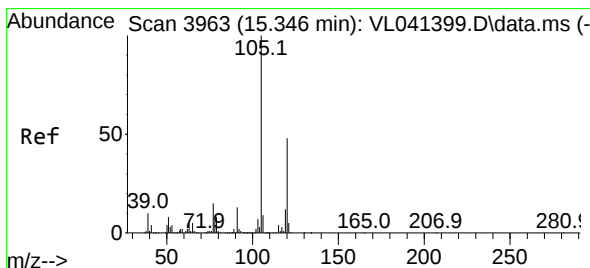
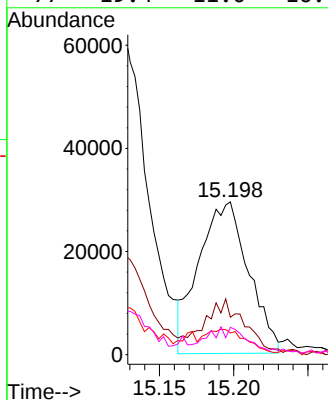
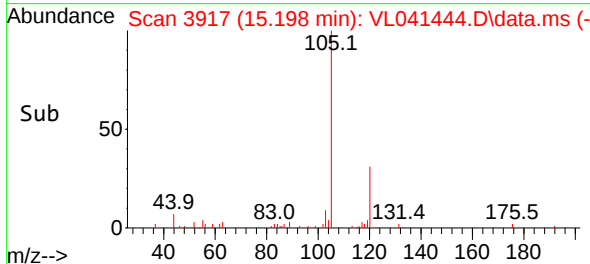
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-04



Tgt Ion:105 Resp: 6849
Ion Ratio Lower Upper
105 100
120 31.1 24.2 36.2
91 19.6 10.4 15.6
77 19.4 11.0 16.4#

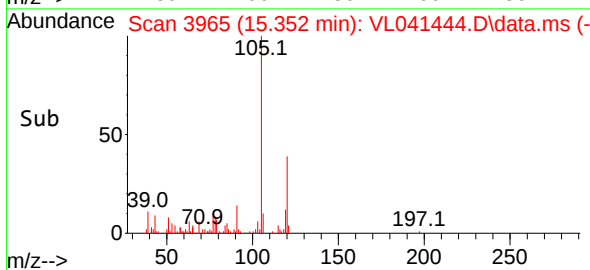
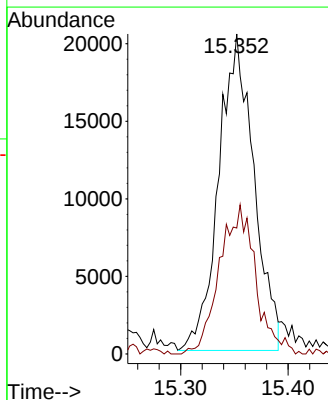
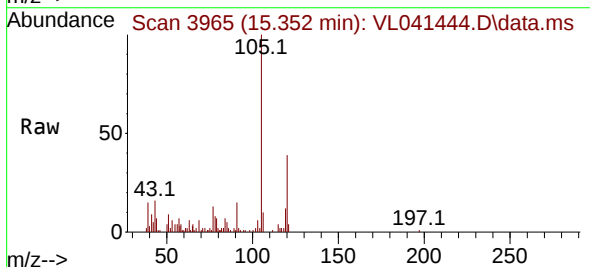
Manual Integrations
APPROVED

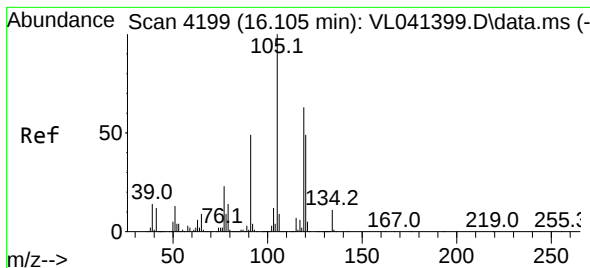
Reviewed By :Mahesh Dadoda 07/30/2024
Supervised By :Semsettin Yesilyurt 07/30/2024



#73
1,3,5-Trimethylbenzene
Concen: 0.187 ppbv
RT: 15.352 min Scan# 3965
Delta R.T. 0.003 min
Lab File: VL041444.D
Acq: 30 Jul 2024 1:11

Tgt Ion:105 Resp: 46323
Ion Ratio Lower Upper
105 100
120 39.8 38.6 57.8





#74

1,2,4-Trimethylbenzene

Concen: 0.642 ppbv

RT: 16.108 min Scan# 4199

Delta R.T. -0.000 min

Lab File: VL041444.D

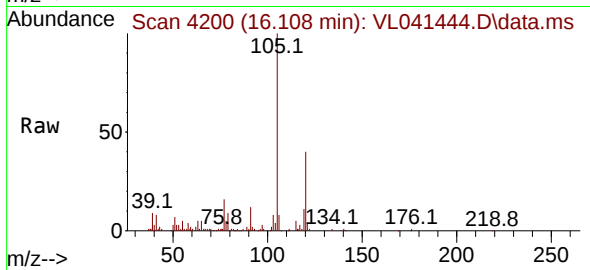
Acq: 30 Jul 2024 1:11

Instrument :

MSVOA_L

ClientSampleId :

ACVI-IA-04



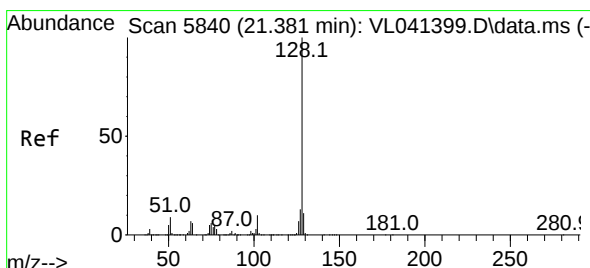
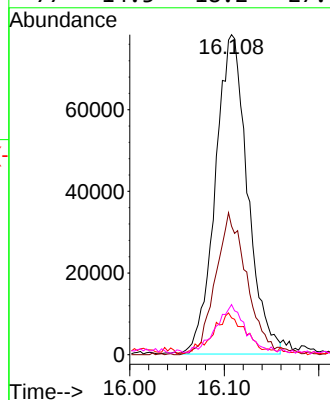
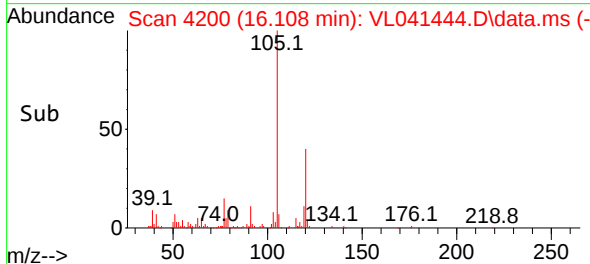
Tgt Ion:	105	Resp:	18502
Ion Ratio	Lower	Upper	
105	100		
120	40.2	39.5	59.3
91	10.9	39.8	59.8
77	14.3	18.2	27.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/30/2024

Supervised By :Semsettin Yesilyurt 07/30/2024



#79

Naphthalene

Concen: 0.127 ppbv m

RT: 21.394 min Scan# 5844

Delta R.T. 0.013 min

Lab File: VL041444.D

Acq: 30 Jul 2024 1:11

Tgt Ion:	128	Resp:	32209
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.3	15.5
129	11.9	9.0	13.4

