

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
 Data File : VL040392.D
 Acq On : 19 Apr 2023 23:02
 Operator : SY/MD
 Sample : 02410-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01-20230417

Quant Time: Apr 20 07:49:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/20/2023
 Supervised By : Mahesh Dadoda 04/22/2023

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

Internal Standards								
1) Bromochloromethane			5.176	49	1107475	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene			6.639	114	2938834	10.000	ppbv	-0.02
55) Chlorobenzene-d5			11.459	117	2743056	10.000	ppbv	-0.02
System Monitoring Compounds								
68) 1-Bromo-4-Fluorobenzene			13.770	95	2268723	10.002	ppbv	-0.02
Spiked Amount		10.000	Range	65 - 135	Recovery	= 100.000%		
Target Compounds								Qvalue
2) Dichlorodifluoromethane			2.710	85	27019	0.135	ppbv	98
3) Chlorodifluoromethane			2.655	51	25492m	0.176	ppbv	
4) Chloromethane			2.797	50	15295	0.167	ppbv	90
9) Propene			2.681	41	792585m	13.863	ppbv	
10) Heptane			7.568	43	147025	1.132	ppbv	99
11) Trichlorofluoromethane			3.542	101	34168	0.169	ppbv	84
13) Ethanol			3.221	45	38391m	8.044	ppbv	
15) Acetone			3.446	43	673630m	4.295	ppbv	
20) Methylene Chloride			3.915	84	98788	1.577	ppbv	94
26) Hexane			5.198	57	296419	2.664	ppbv #	37
27) Carbon Disulfide			4.105	76	123556	0.858	ppbv #	89
29) Chloroform			5.256	83	112736	0.569	ppbv	96
30) Cyclohexane			6.584	84	85060	0.987	ppbv #	89
34) 2-Butanone			4.768	43	765989	4.834	ppbv	98
36) Benzene			6.356	78	835047	3.483	ppbv	98
38) Trichloroethene			7.275	130	14797m	0.108	ppbv	
41) Tetrahydrofuran			5.546	42	221794	2.556	ppbv	99
44) 2,2,4-Trimethylpentane			7.311	57	481384	1.202	ppbv #	51
52) Tetrachloroethene			10.603	164	25543m	0.341	ppbv	
53) Toluene			9.211	91	620492	2.441	ppbv	99
58) Ethyl Benzene			12.079	91	360340	1.068	ppbv	96
59) m/p-Xylene			12.336	91	806077	2.598	ppbv	95
60) o-Xylene			13.047	91	428562	1.439	ppbv	99
62) Isopropylbenzene			14.024	105	85255	0.199	ppbv	96
64) n-propylbenzene			14.918	120	29353m	0.278	ppbv	
67) sec-Butylbenzene			16.629	105	68801	0.127	ppbv	97
73) 1,3,5-Trimethylbenzene			15.349	105	279659m	0.921	ppbv	
74) 1,2,4-Trimethylbenzene			16.098	105	362713	1.045	ppbv #	67

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

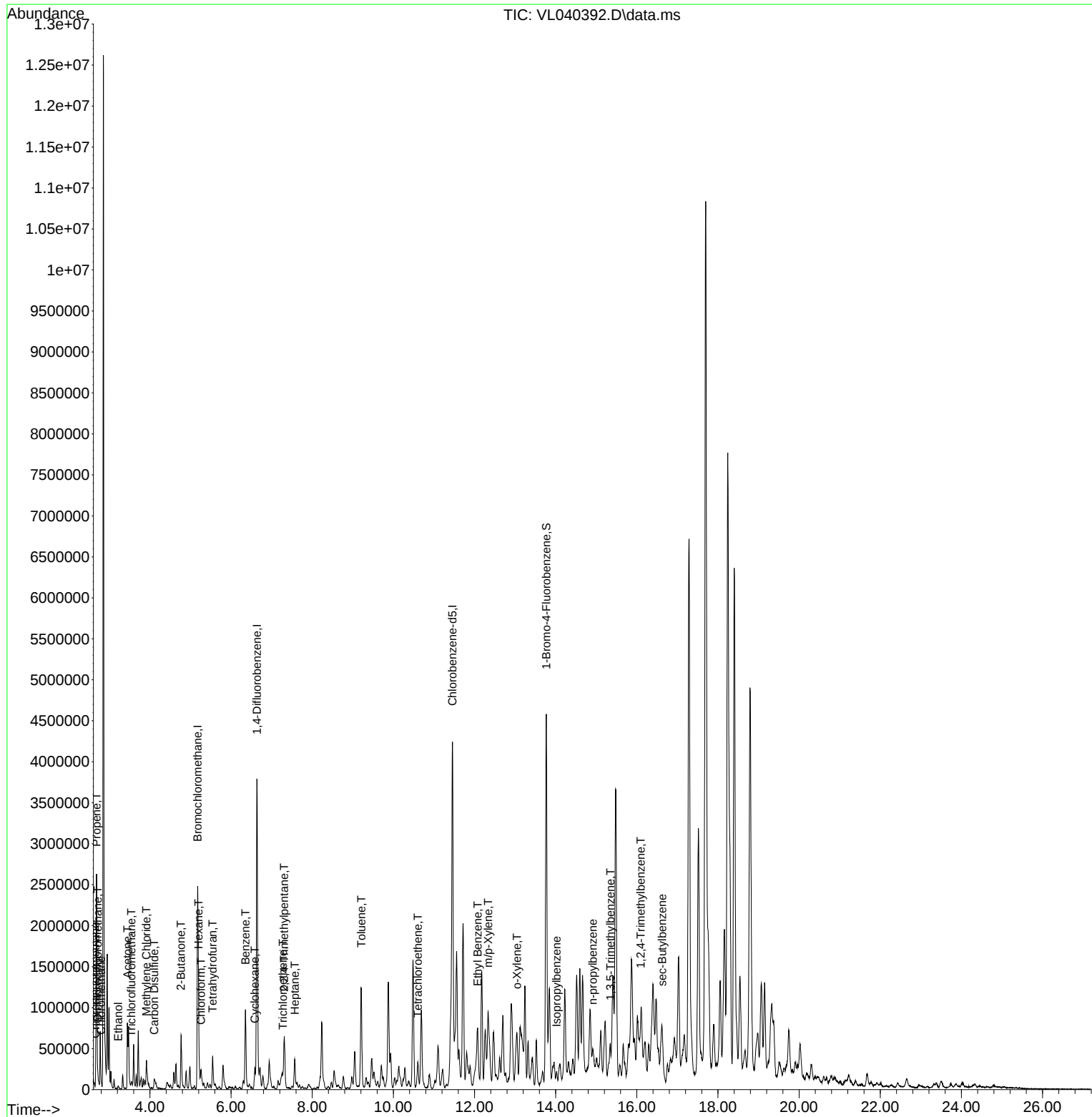
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041923\
Data File : VL040392.D
Acq On : 19 Apr 2023 23:02
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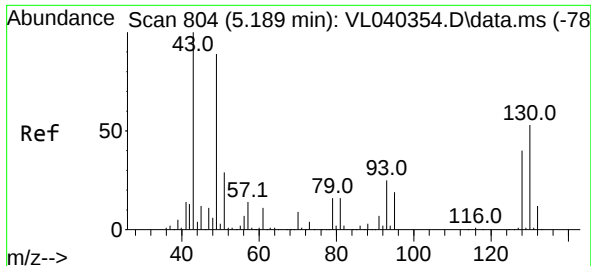
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417

Quant Time: Apr 20 07:49:44 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Apr 13 14:37:02 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

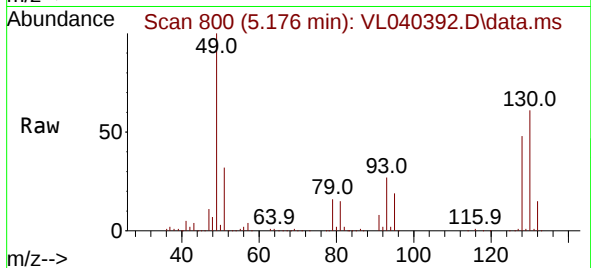
Reviewed By : Semsettin Yesilyurt 04/20/2023
Supervised By : Mahesh Dadoda 04/22/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. -0.013 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

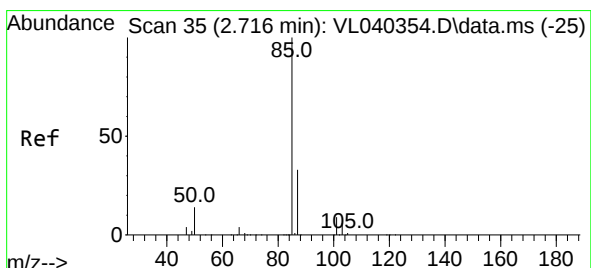
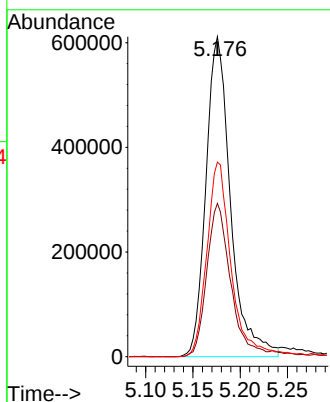
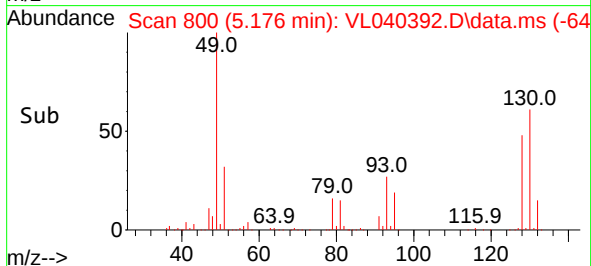
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417



Tgt Ion: 49 Resp: 110747
Ion Ratio Lower Upper
49 100
128 48.6 23.7 71.1
130 61.8 29.9 89.8

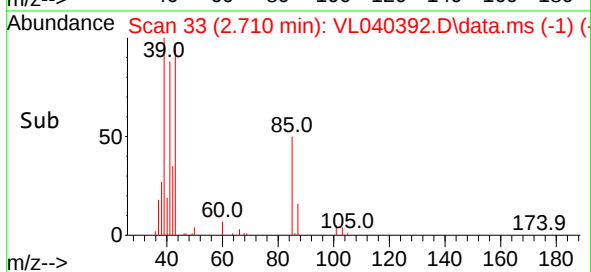
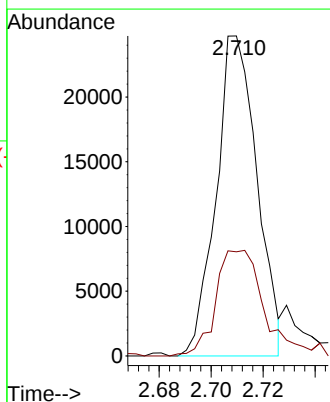
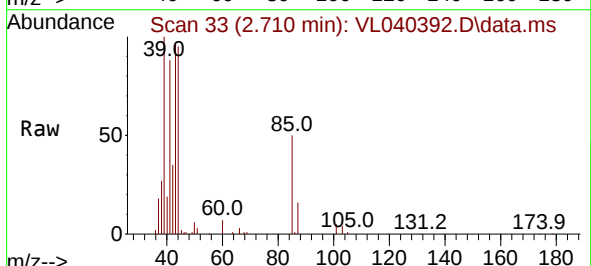
Manual Integrations
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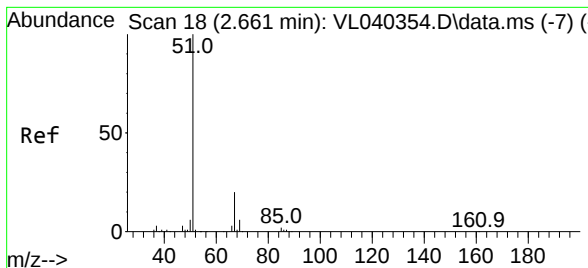
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#2
Dichlorodifluoromethane
Concen: 0.135 ppbv
RT: 2.710 min Scan# 33
Delta R.T. -0.006 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

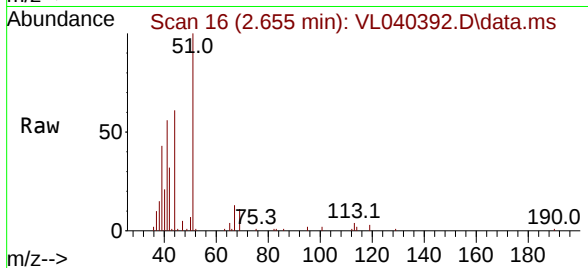
Tgt Ion: 85 Resp: 27019
Ion Ratio Lower Upper
85 100
87 31.9 26.6 40.0





#3
Chlorodifluoromethane
Concen: 0.176 ppbv m
RT: 2.655 min Scan# 10
Delta R.T. -0.006 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

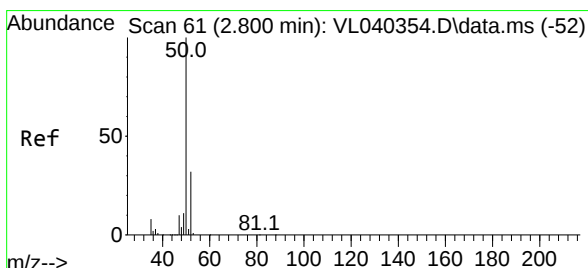
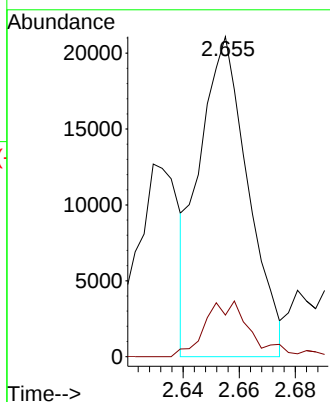
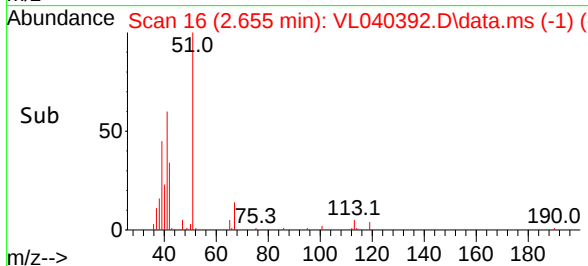
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417



Tgt Ion: 51 Resp: 25492
Ion Ratio Lower Upper
51 100
67 16.8 15.5 23.3

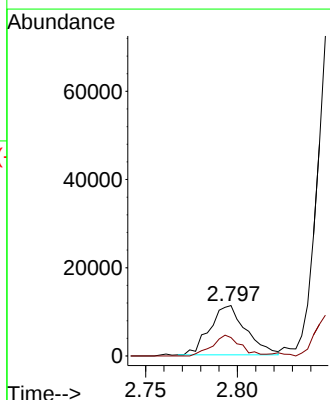
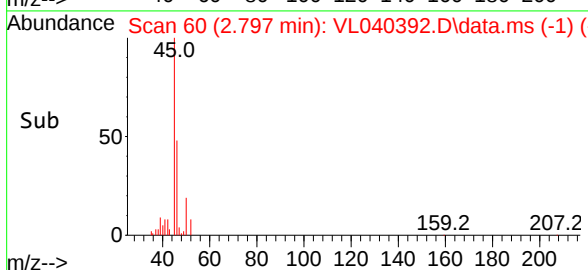
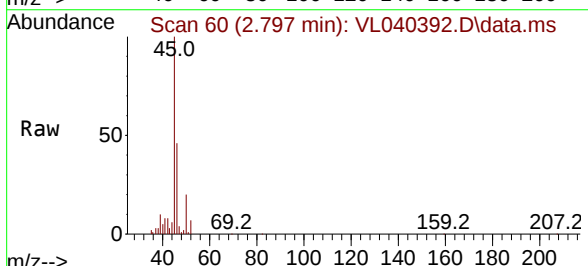
Manual Integrations
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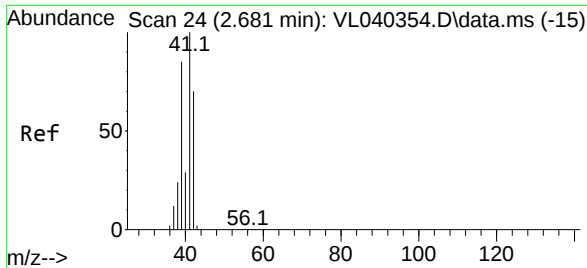
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#4
Chloromethane
Concen: 0.167 ppbv
RT: 2.797 min Scan# 60
Delta R.T. -0.003 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

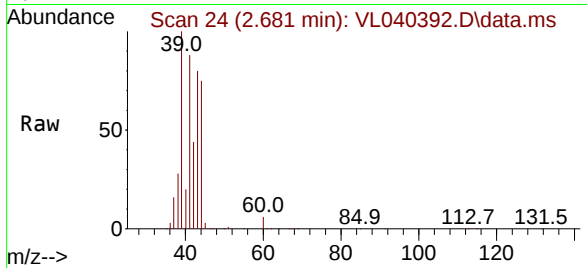
Tgt Ion: 50 Resp: 15295
Ion Ratio Lower Upper
50 100
52 37.3 25.3 37.9





#9
 Propene
 Concen: 13.863 ppbv m
 RT: 2.681 min Scan# 24
 Delta R.T. -0.000 min
 Lab File: VL040392.D
 Acq: 19 Apr 2023 23:02

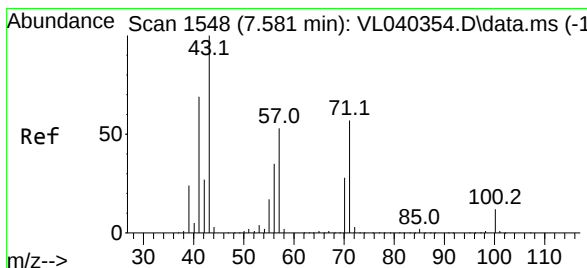
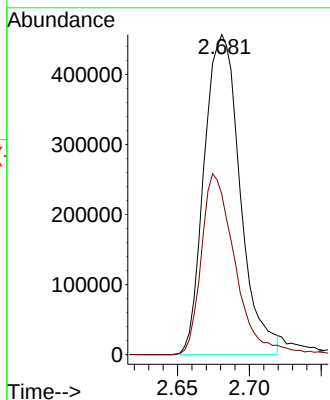
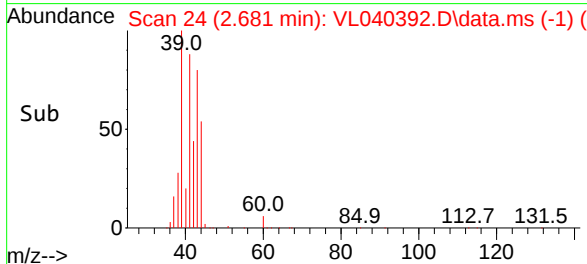
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01-20230417



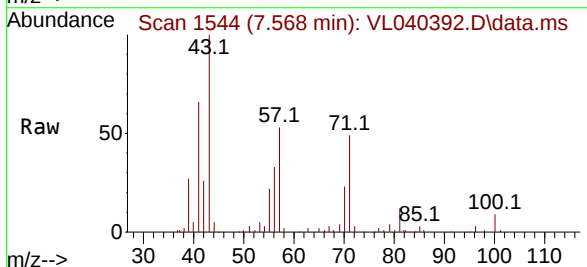
Tgt Ion: 41 Resp: 79258
 Ion Ratio Lower Upper
 41 100
 42 342.4 56.5 84.7

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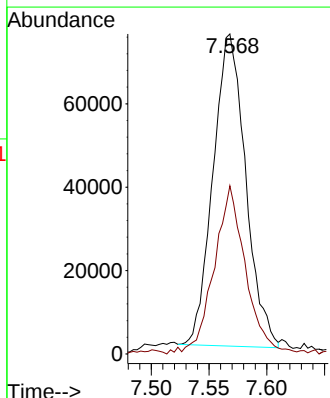
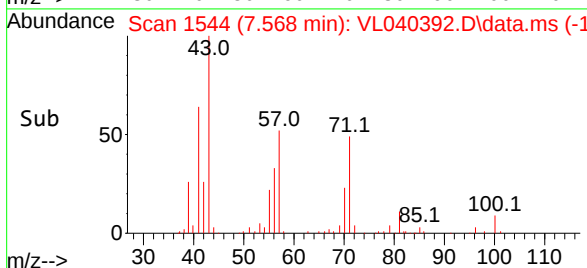
Reviewed By :Semsettin Yesilyurt 04/20/2023
 Supervised By :Mahesh Dadoda 04/22/2023

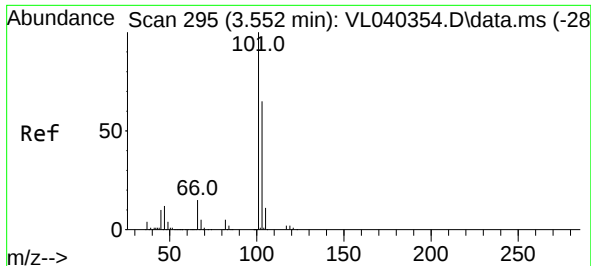


#10
 Heptane
 Concen: 1.132 ppbv
 RT: 7.568 min Scan# 1544
 Delta R.T. -0.013 min
 Lab File: VL040392.D
 Acq: 19 Apr 2023 23:02



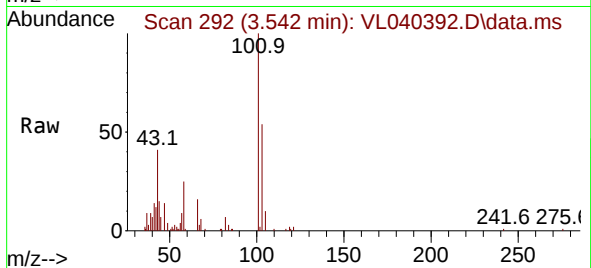
Tgt Ion: 43 Resp: 147025
 Ion Ratio Lower Upper
 43 100
 57 53.8 42.2 63.4





#11
Trichlorofluoromethane
Concen: 0.169 ppbv
RT: 3.542 min Scan# 295
Delta R.T. -0.010 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

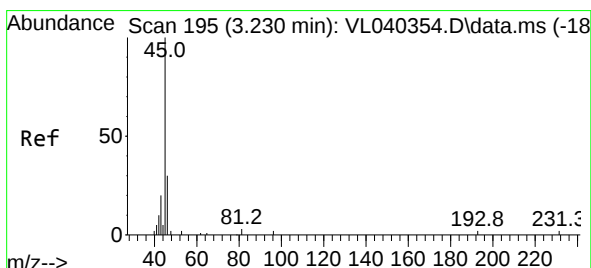
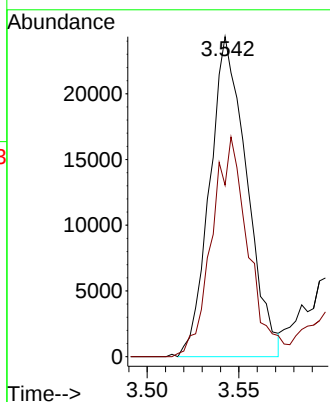
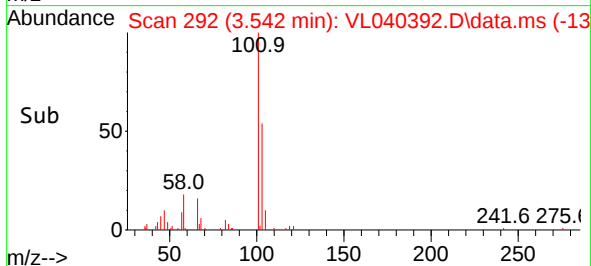
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417



Tgt Ion:101 Resp: 34168
Ion Ratio Lower Upper
101 100
103 52.6 52.2 78.4

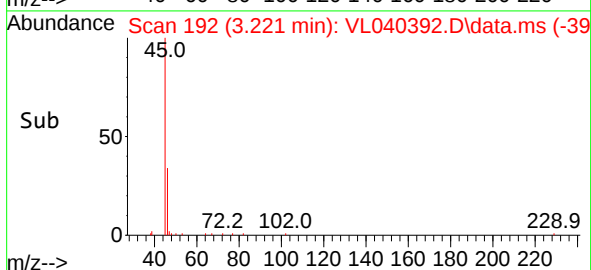
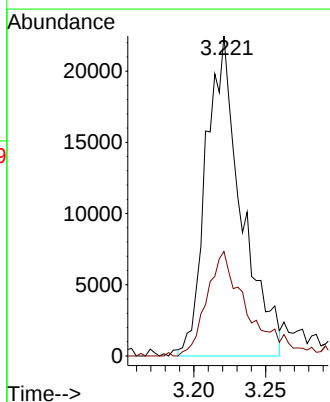
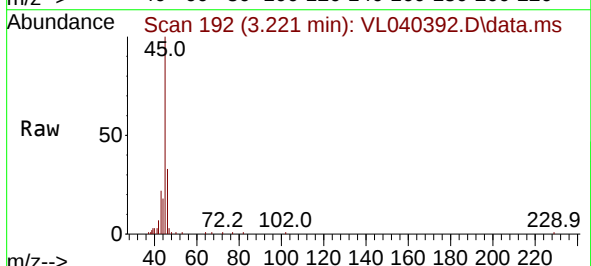
Manual Integrations
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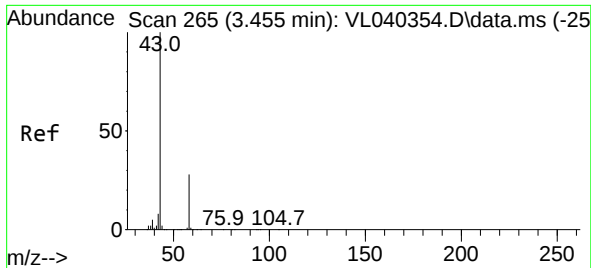
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#13
Ethanol
Concen: 8.044 ppbv m
RT: 3.221 min Scan# 192
Delta R.T. -0.009 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

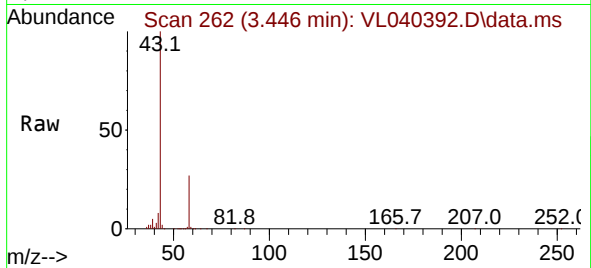
Tgt Ion: 45 Resp: 38391
Ion Ratio Lower Upper
45 100
46 38.9 15.3 61.3





#15
Acetone
Concen: 4.295 ppbv m
RT: 3.446 min Scan# 20
Delta R.T. -0.009 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

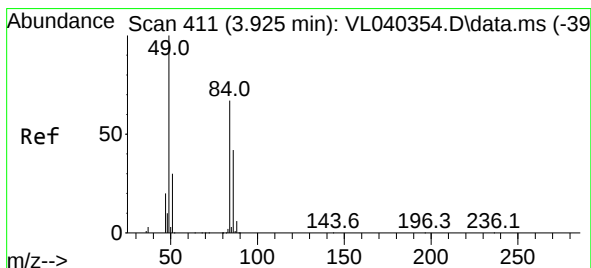
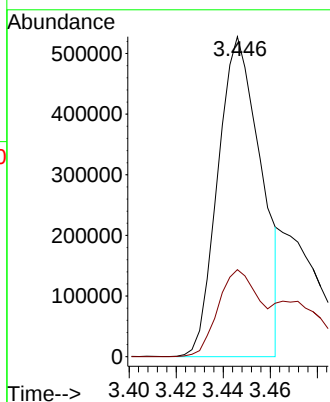
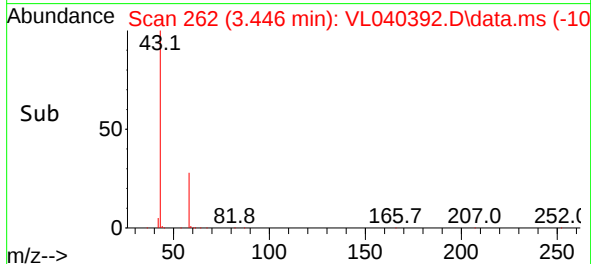
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417



Tgt Ion: 43 Resp: 673630
Ion Ratio Lower Upper
43 100
58 53.4 22.2 33.2

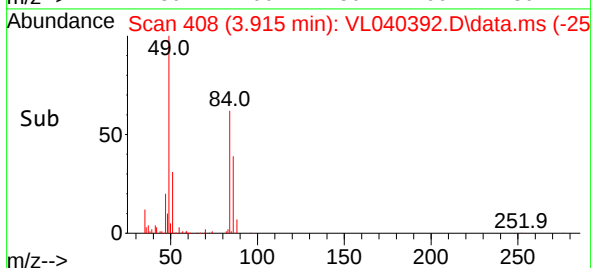
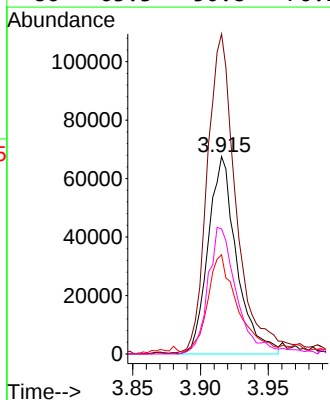
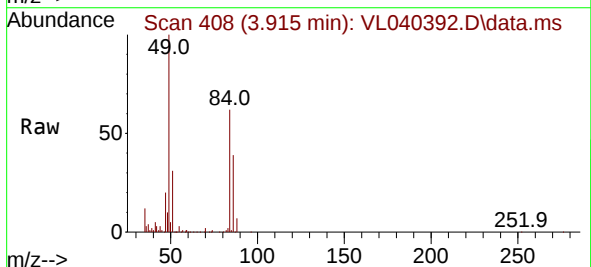
Manual Integrations
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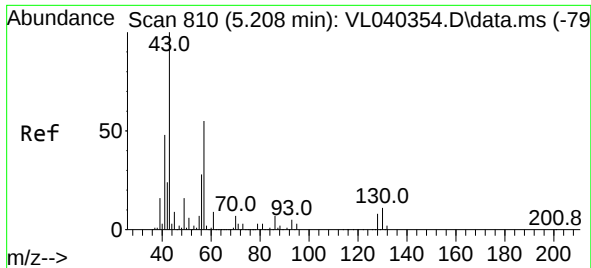
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#20
Methylene Chloride
Concen: 1.577 ppbv
RT: 3.915 min Scan# 408
Delta R.T. -0.010 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

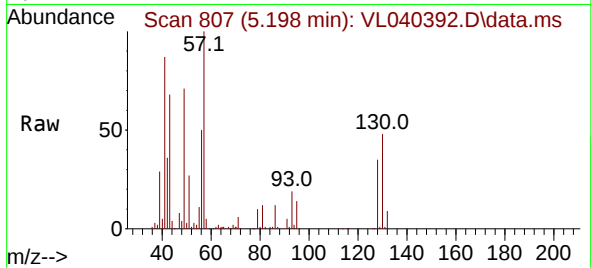
Tgt Ion: 84 Resp: 98788
Ion Ratio Lower Upper
84 100
49 161.3 120.1 180.1
51 48.6 36.3 54.5
86 63.3 50.8 76.2





#26
Hexane
Concen: 2.664 ppbv
RT: 5.198 min Scan# 810
Delta R.T. -0.010 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

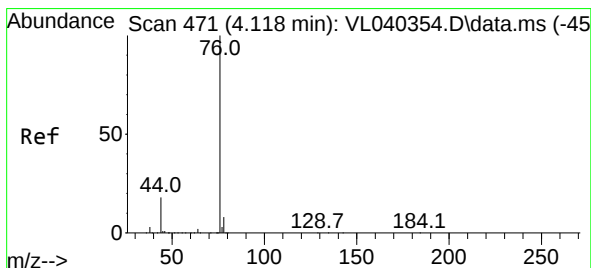
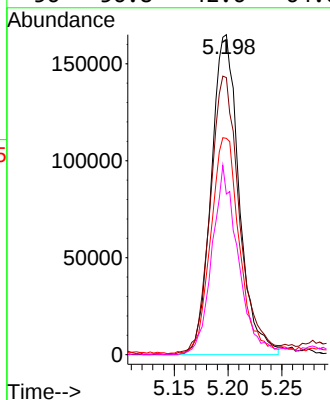
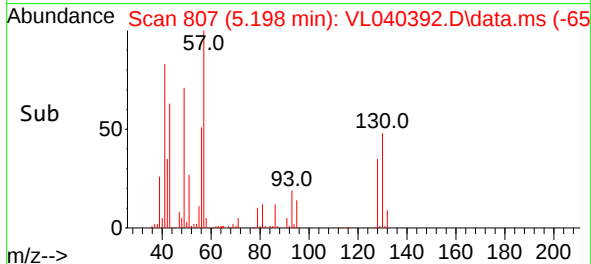
Instrument :
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Tgt Ion: 57 Resp: 296419
Ion Ratio Lower Upper
57 100
41 93.3 74.8 112.2
43 70.3 192.7 289.1
56 56.8 42.6 64.0

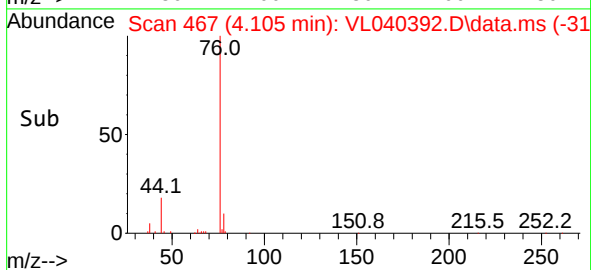
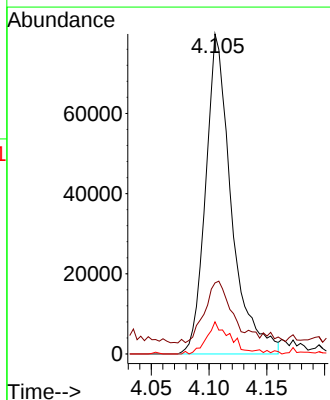
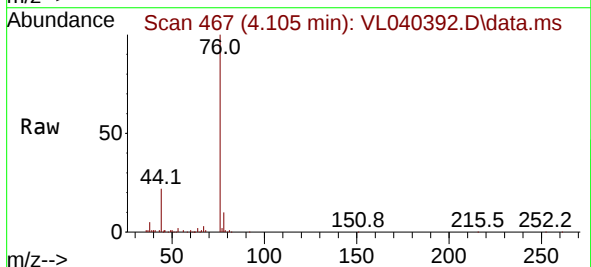
Manual Integrations
APPROVED

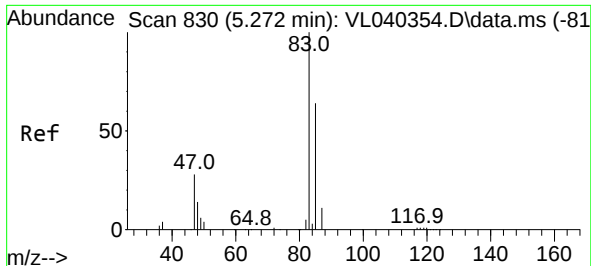
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#27
Carbon Disulfide
Concen: 0.858 ppbv
RT: 4.105 min Scan# 467
Delta R.T. -0.013 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

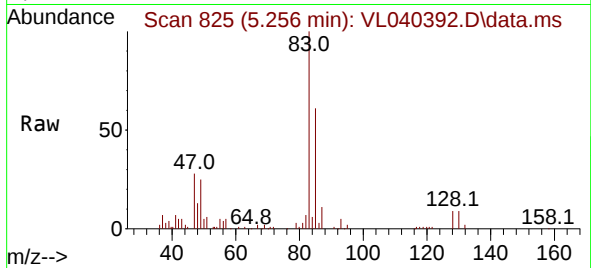
Tgt Ion: 76 Resp: 123556
Ion Ratio Lower Upper
76 100
44 24.8 14.7 22.1
78 10.9 7.7 11.5





#29
Chloroform
Concen: 0.569 ppbv
RT: 5.256 min Scan# 81
Delta R.T. -0.016 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

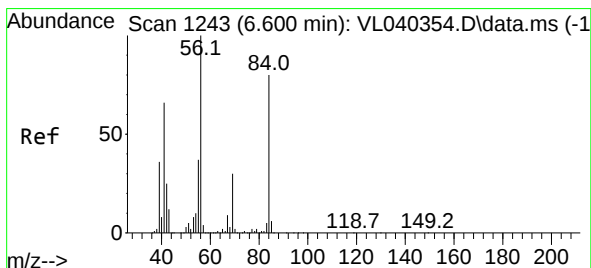
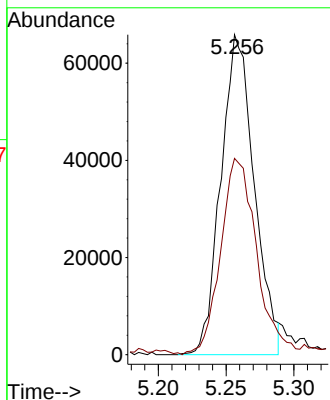
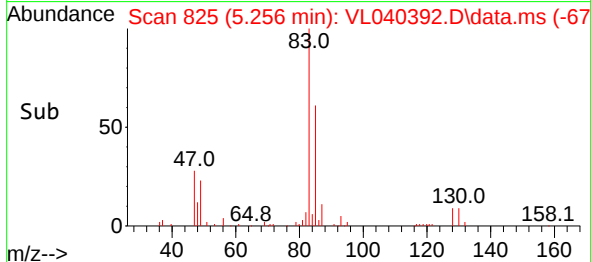
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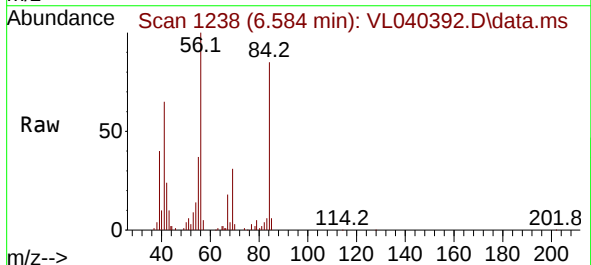
Tgt Ion: 83 Resp: 112730
Ion Ratio Lower Upper
83 100
85 60.8 51.0 76.4

Manual Integrations
APPROVED

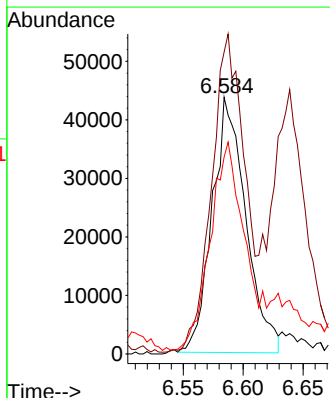
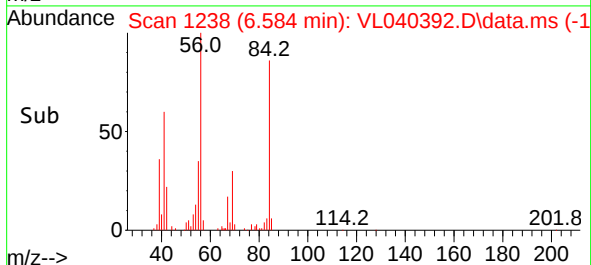
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

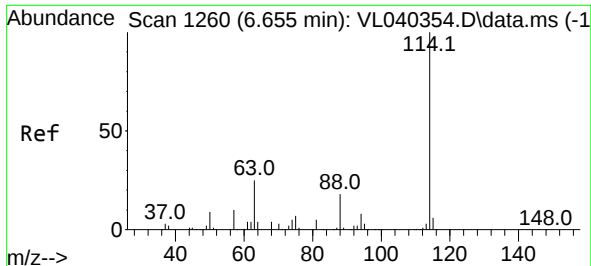


#30
Cyclohexane
Concen: 0.987 ppbv
RT: 6.584 min Scan# 1238
Delta R.T. -0.016 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02



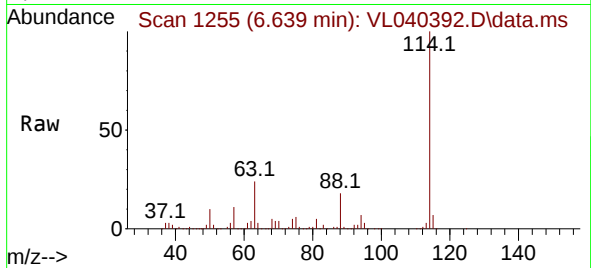
Tgt Ion: 84 Resp: 85060
Ion Ratio Lower Upper
84 100
56 128.5 107.0 160.6
41 101.9 66.7 100.1#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 114
Delta R.T. -0.016 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

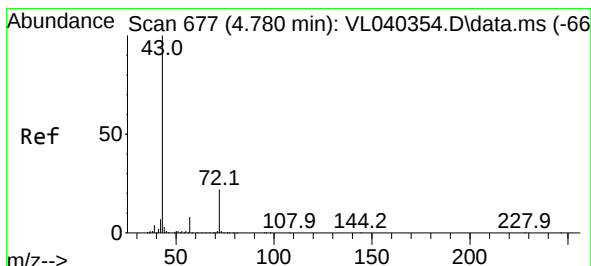
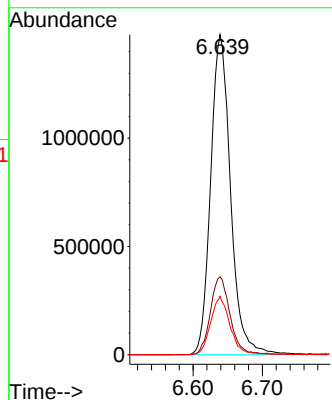
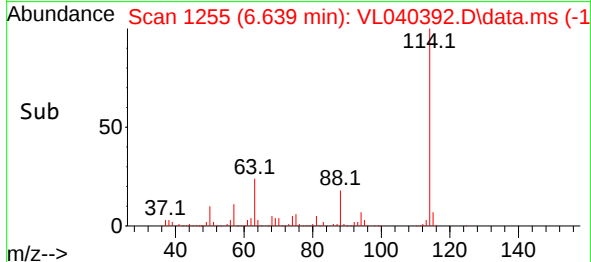
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417



Tgt Ion:114 Resp: 2938834
Ion Ratio Lower Upper
114 100
63 24.4 21.4 32.0
88 17.8 14.6 22.0

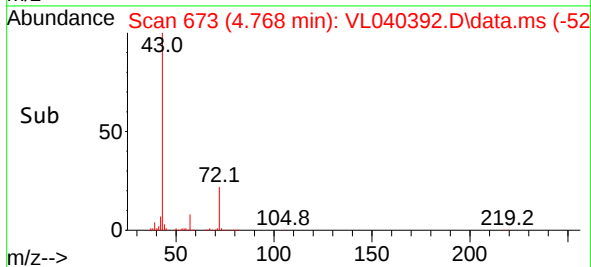
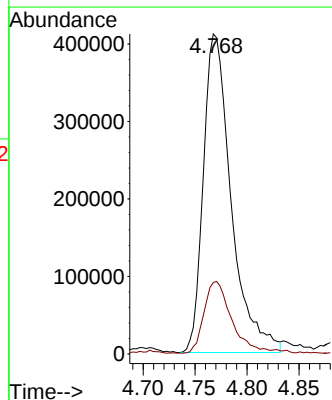
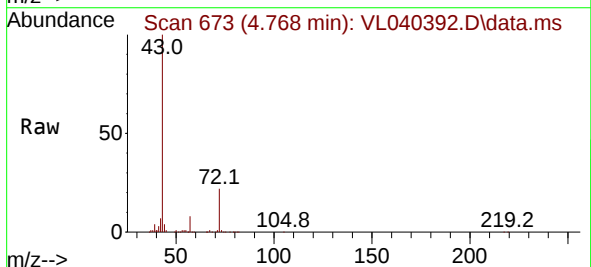
Manual Integrations
APPROVED

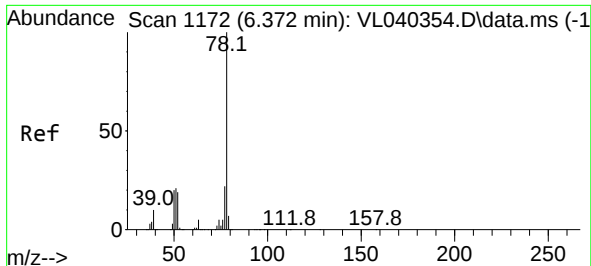
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#34
2-Butanone
Concen: 4.834 ppbv
RT: 4.768 min Scan# 673
Delta R.T. -0.013 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

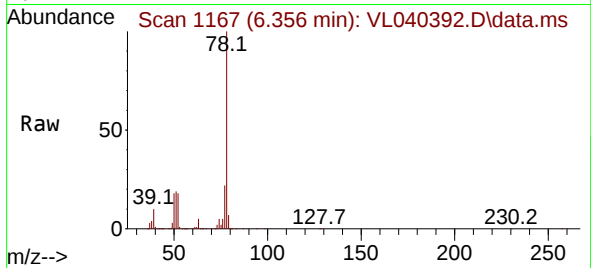
Tgt Ion: 43 Resp: 765989
Ion Ratio Lower Upper
43 100
72 24.1 18.4 27.6





#36
Benzene
Concen: 3.483 ppbv
RT: 6.356 min Scan# 1172
Delta R.T. -0.016 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

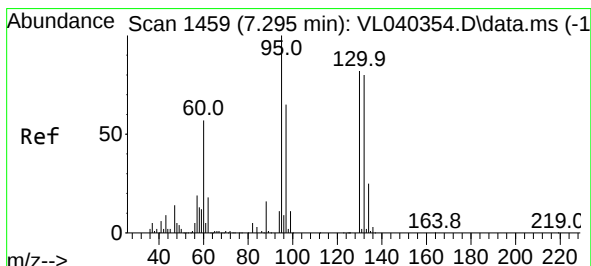
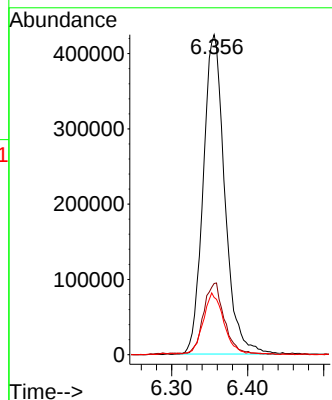
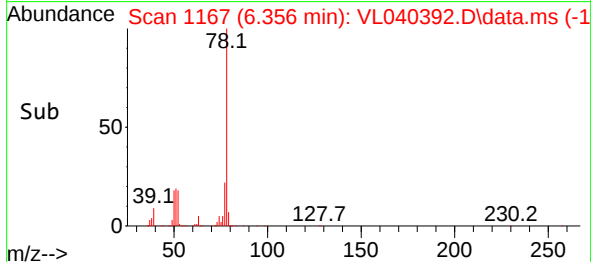
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417



Tgt Ion: 78 Resp: 83504
Ion Ratio Lower Upper
78 100
77 22.2 17.8 26.8
50 17.8 15.6 23.4

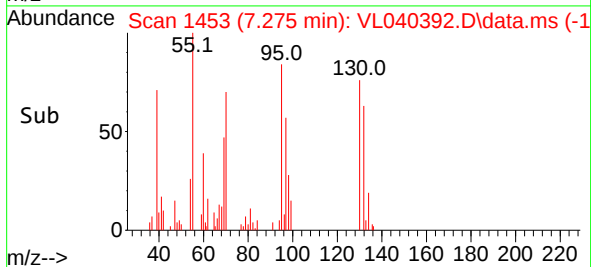
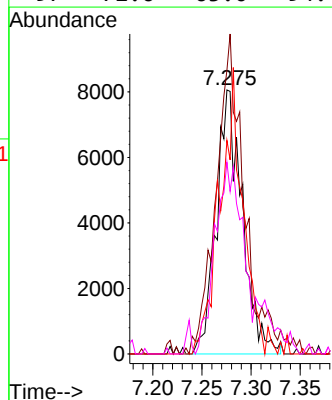
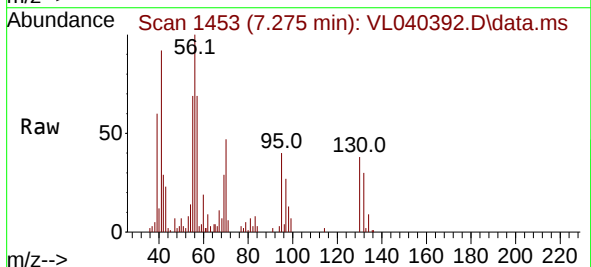
Manual Integrations
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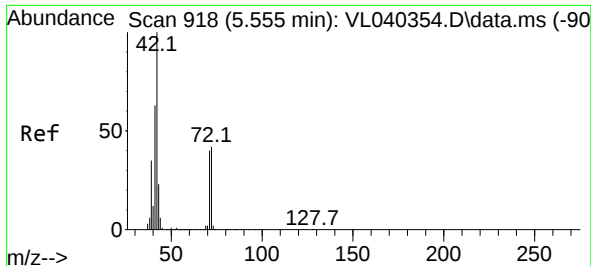
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#38
Trichloroethene
Concen: 0.108 ppbv m
RT: 7.275 min Scan# 1453
Delta R.T. -0.020 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

Tgt Ion:130 Resp: 14797
Ion Ratio Lower Upper
130 100
95 107.4 97.4 146.0
132 80.9 77.5 116.3
97 72.6 63.0 94.4





#41

Tetrahydrofuran

Concen: 2.556 ppbv

RT: 5.546 min Scan# 918

Delta R.T. -0.009 min

Lab File: VL040392.D

Acq: 19 Apr 2023 23:02

Instrument :

MSVOA_L

ClientSampleId :

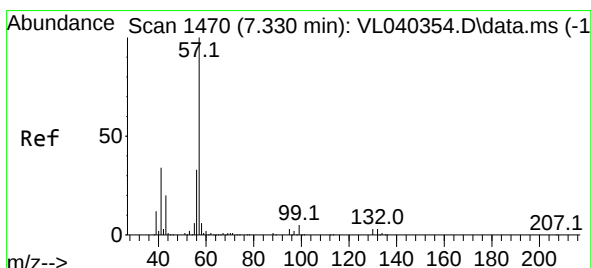
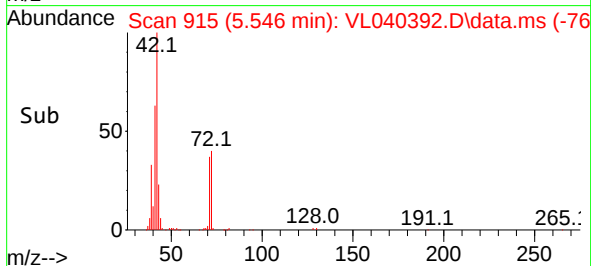
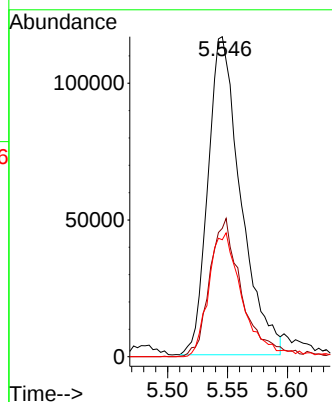
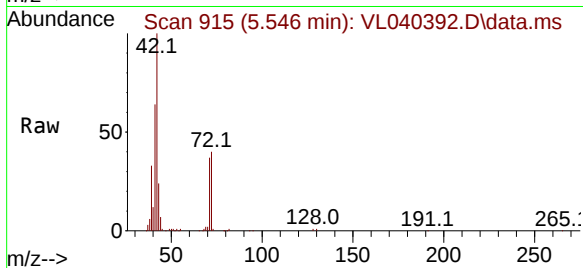
SV-01-20230417

Tgt Ion:	42	Resp:	221794
Ion	Ratio	Lower	Upper
42	100		
72	43.5	33.7	50.5
71	40.1	32.2	48.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#44

2,2,4-Trimethylpentane

Concen: 1.202 ppbv

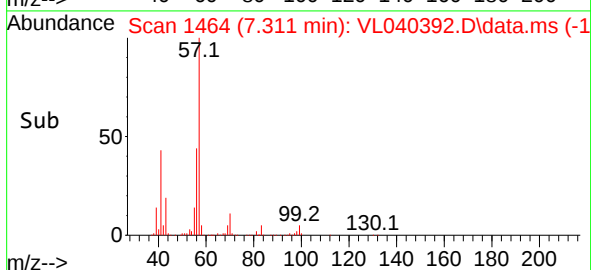
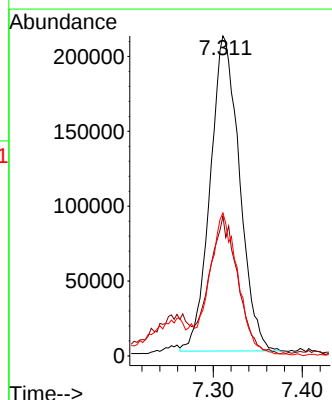
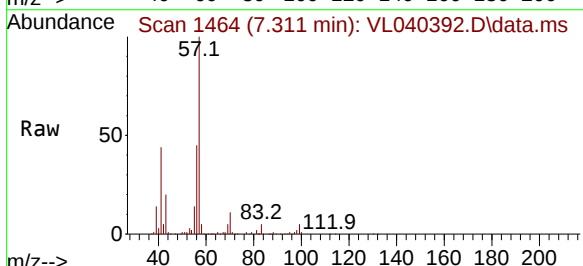
RT: 7.311 min Scan# 1464

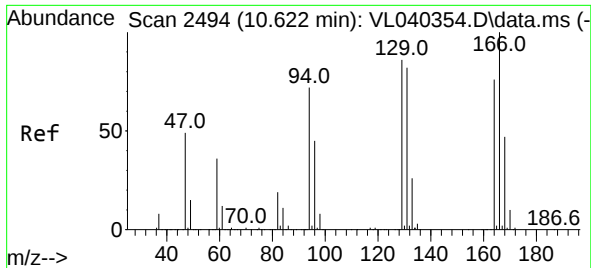
Delta R.T. -0.019 min

Lab File: VL040392.D

Acq: 19 Apr 2023 23:02

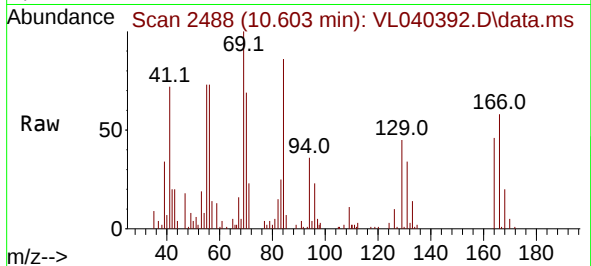
Tgt Ion:	57	Resp:	481384
Ion	Ratio	Lower	Upper
57	100		
41	59.9	26.9	40.3#
56	59.9	25.1	37.7#





#52
Tetrachloroethene
Concen: 0.341 ppbv m
RT: 10.603 min Scan# 2494
Delta R.T. -0.019 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

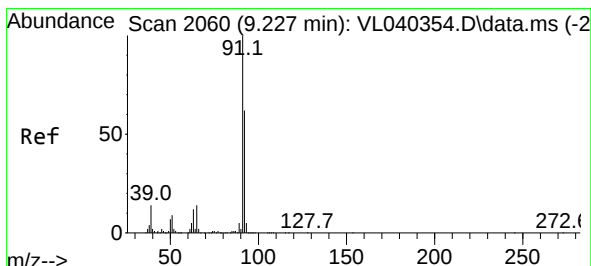
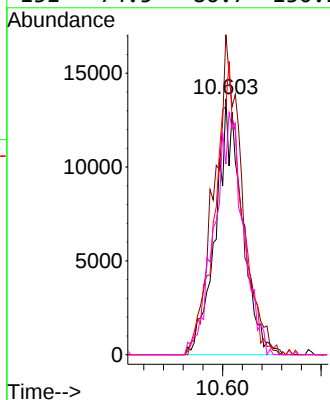
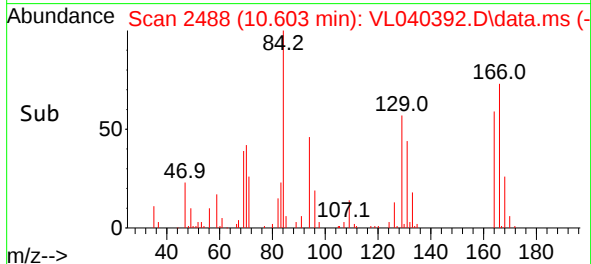
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417



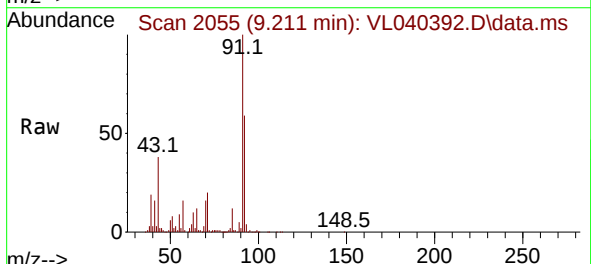
Tgt Ion:164 Resp: 2554
Ion Ratio Lower Upper
164 100
166 125.1 105.2 157.8
129 97.1 90.3 135.5
131 74.5 86.7 130.1#

Manual Integrations
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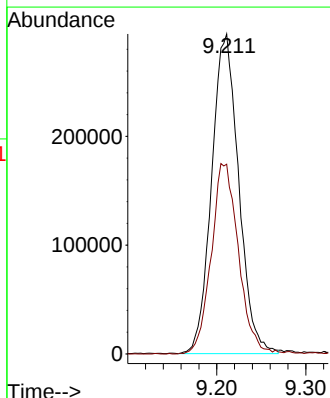
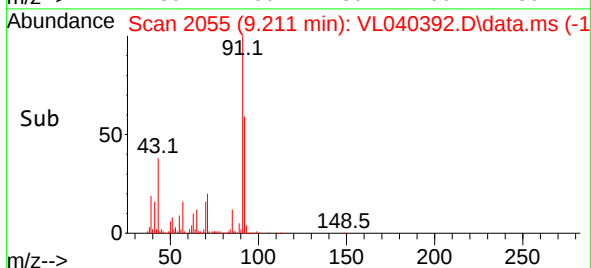
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023

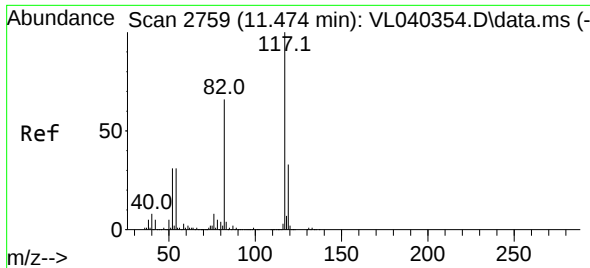


#53
Toluene
Concen: 2.441 ppbv
RT: 9.211 min Scan# 2055
Delta R.T. -0.016 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02



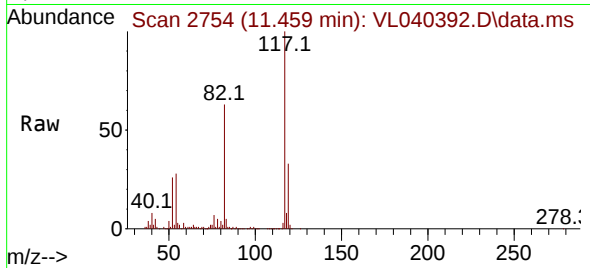
Tgt Ion: 91 Resp: 620492
Ion Ratio Lower Upper
91 100
92 60.6 48.9 73.3





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.459 min Scan# 21
Delta R.T. -0.015 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

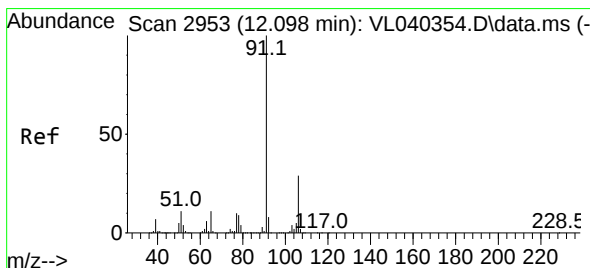
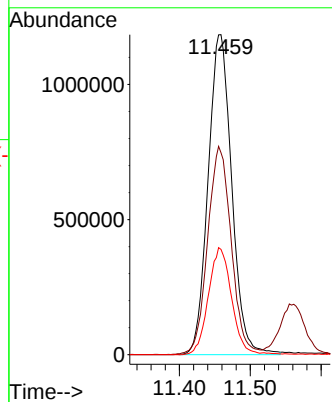
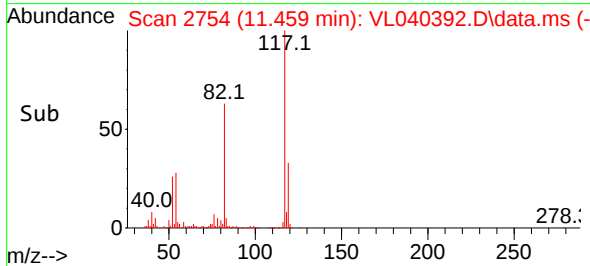
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417



Tgt Ion:117 Resp: 274305
Ion Ratio Lower Upper
117 100
82 65.0 52.5 78.7
119 33.0 24.3 36.5

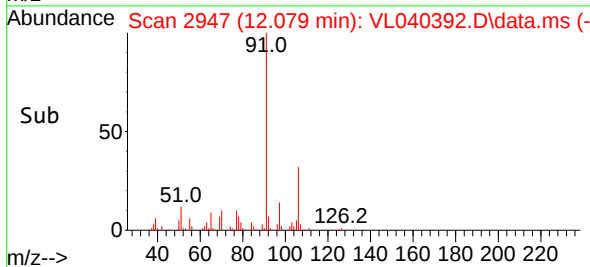
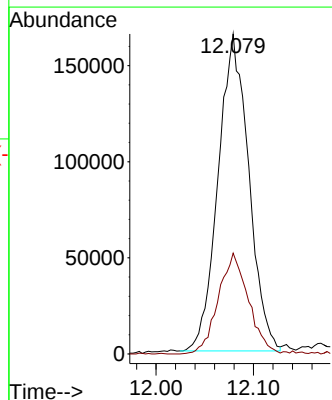
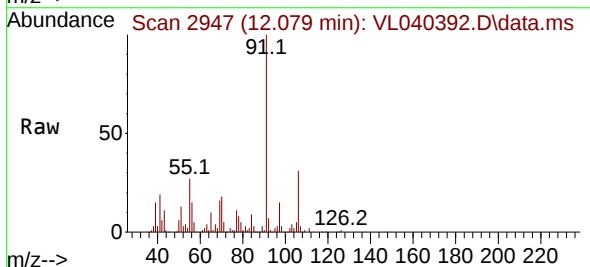
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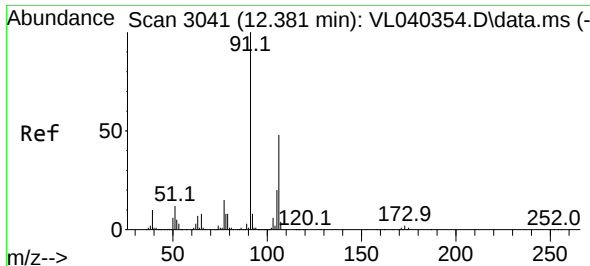
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#58
Ethyl Benzene
Concen: 1.068 ppbv
RT: 12.079 min Scan# 2947
Delta R.T. -0.019 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

Tgt Ion: 91 Resp: 360340
Ion Ratio Lower Upper
91 100
106 31.8 23.5 35.3





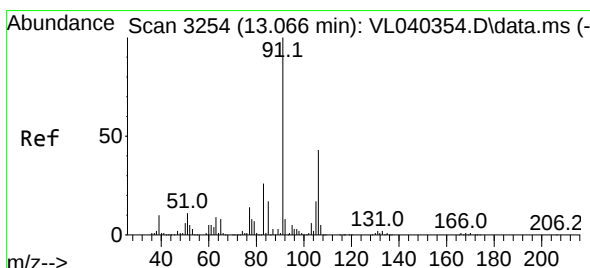
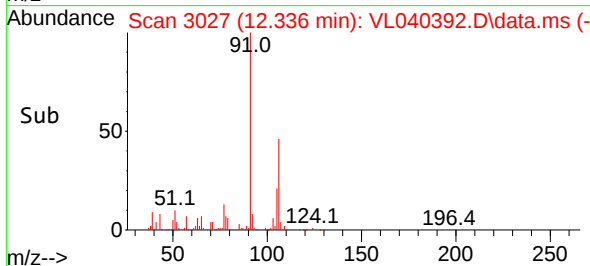
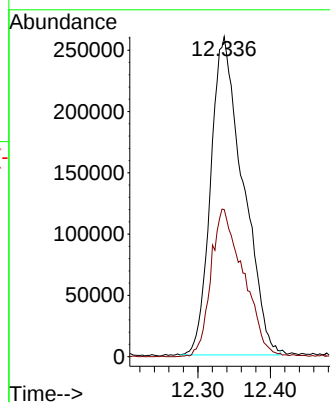
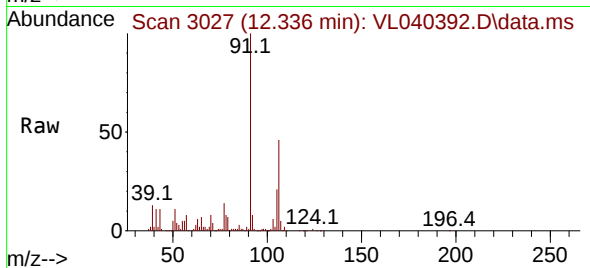
#59
m/p-Xylene
Concen: 2.598 ppbv
RT: 12.336 min Scan# 3041
Delta R.T. -0.045 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417

Tgt Ion: 91 Resp: 80607
Ion Ratio Lower Upper
91 100
106 46.8 34.7 52.1

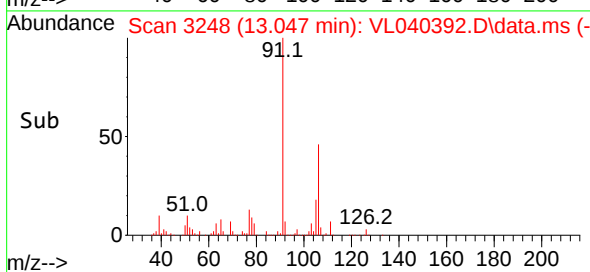
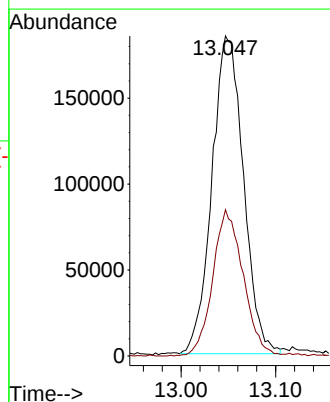
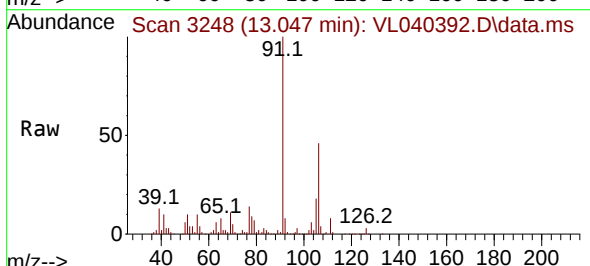
Manual Integrations
APPROVED

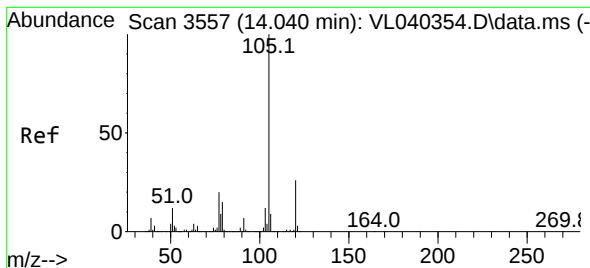
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#60
o-Xylene
Concen: 1.439 ppbv
RT: 13.047 min Scan# 3248
Delta R.T. -0.019 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

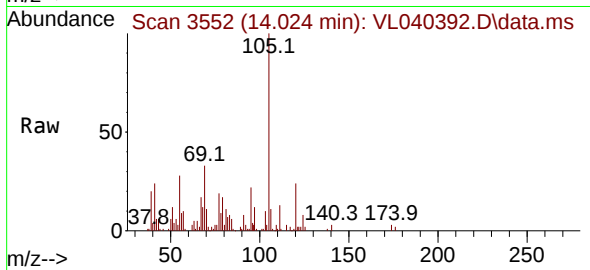
Tgt Ion: 91 Resp: 428562
Ion Ratio Lower Upper
91 100
106 44.9 21.9 65.8





#62
Isopropylbenzene
Concen: 0.199 ppbv
RT: 14.024 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

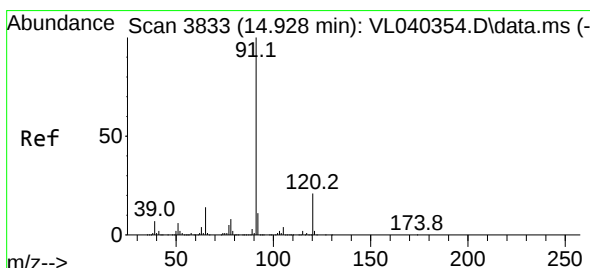
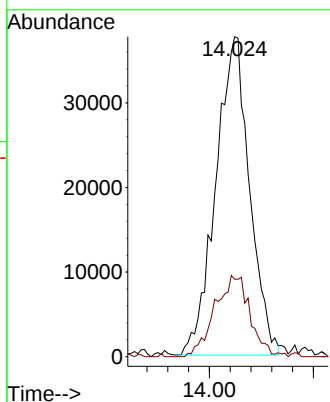
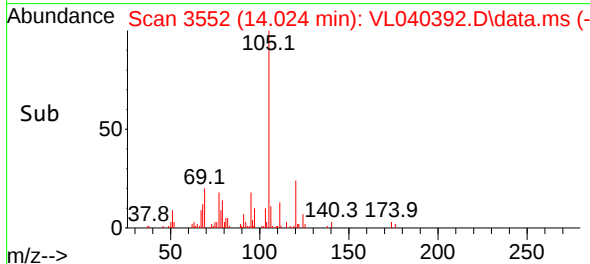
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417



Tgt Ion:105 Resp: 8525
Ion Ratio Lower Upper
105 100
120 26.7 19.9 29.9

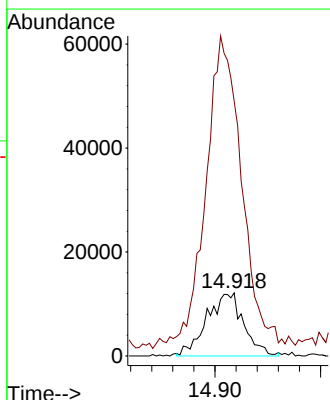
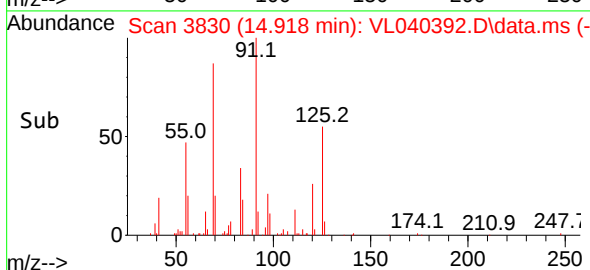
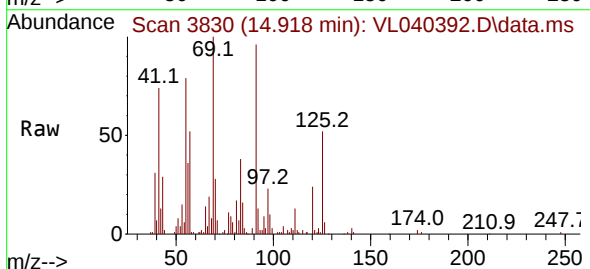
Manual Integrations
APPROVED

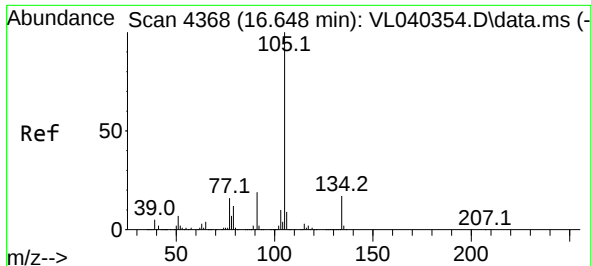
Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#64
n-propylbenzene
Concen: 0.278 ppbv m
RT: 14.918 min Scan# 3830
Delta R.T. -0.010 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

Tgt Ion:120 Resp: 29353
Ion Ratio Lower Upper
120 100
91 491.0 397.4 596.0





#67

sec-Butylbenzene

Concen: 0.127 ppbv

RT: 16.629 min Scan# 41

Delta R.T. -0.019 min

Lab File: VL040392.D

Acq: 19 Apr 2023 23:02

Instrument :

MSVOA_L

ClientSampleId :

SV-01-20230417

Tgt Ion:105 Resp: 6880

Ion Ratio Lower Upper

105 100

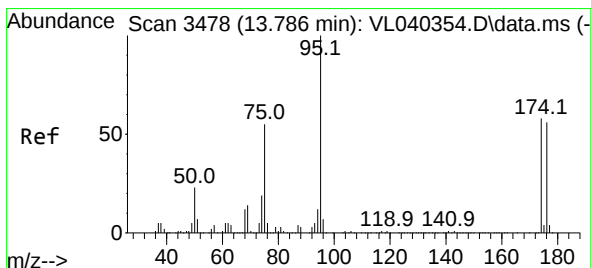
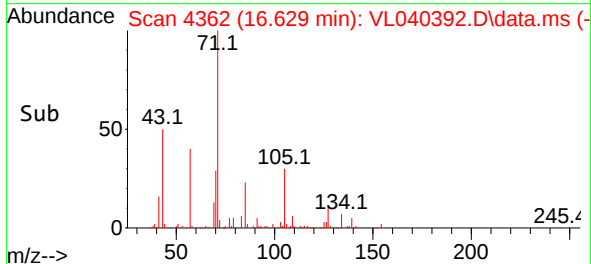
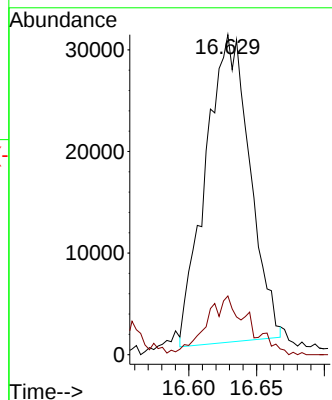
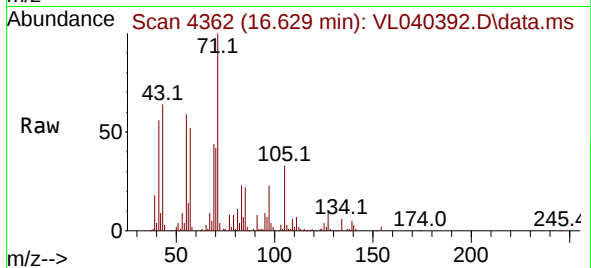
134 18.4 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/20/2023

Supervised By :Mahesh Dadoda 04/22/2023



#68

1-Bromo-4-Fluorobenzene

Concen: 10.002 ppbv

RT: 13.770 min Scan# 3473

Delta R.T. -0.016 min

Lab File: VL040392.D

Acq: 19 Apr 2023 23:02

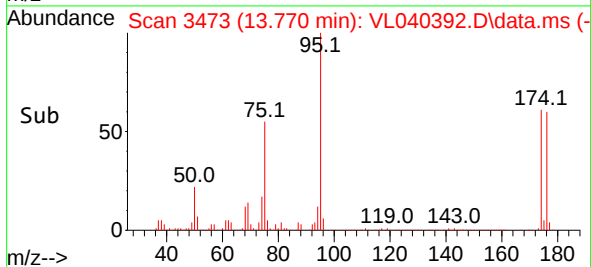
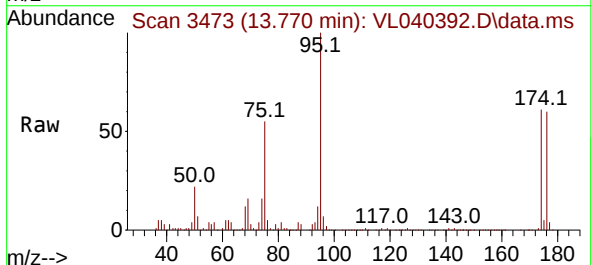
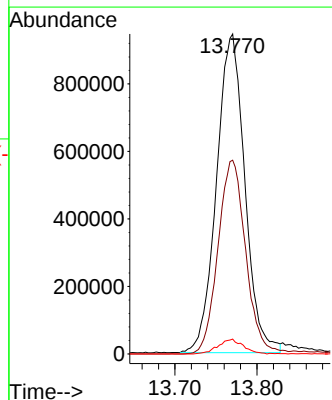
Tgt Ion: 95 Resp: 2268723

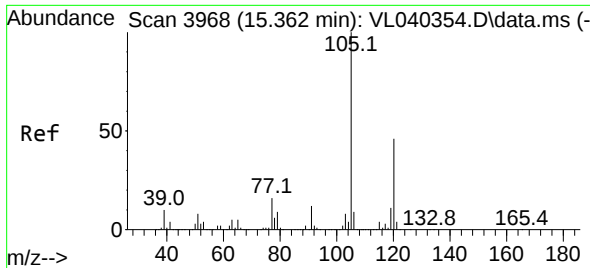
Ion Ratio Lower Upper

95 100

174 60.7 47.2 70.8

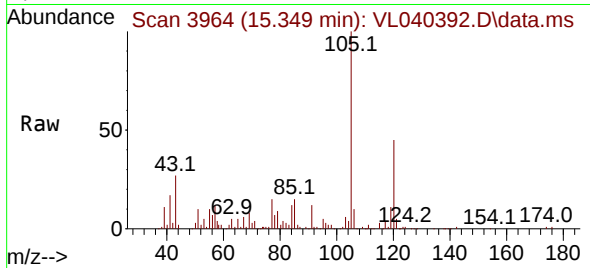
175 4.2 3.5 5.3





#73
1,3,5-Trimethylbenzene
Concen: 0.921 ppbv m
RT: 15.349 min Scan# 3964
Delta R.T. -0.013 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02

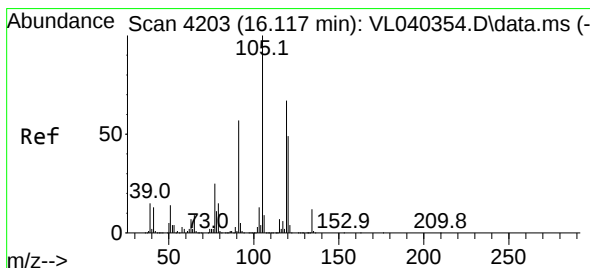
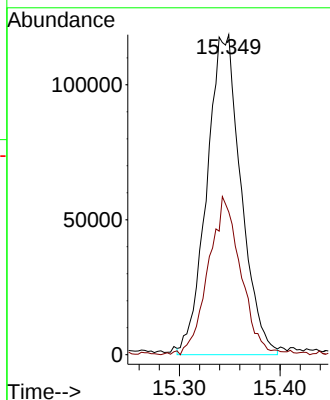
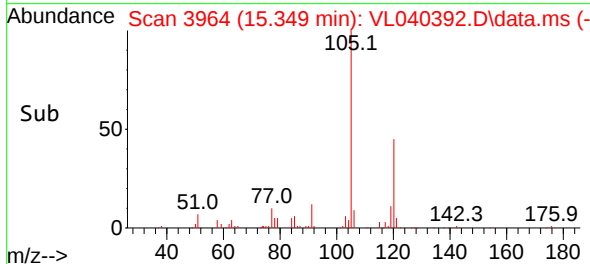
Instrument :
MSVOA_L
ClientSampleId :
SV-01-20230417



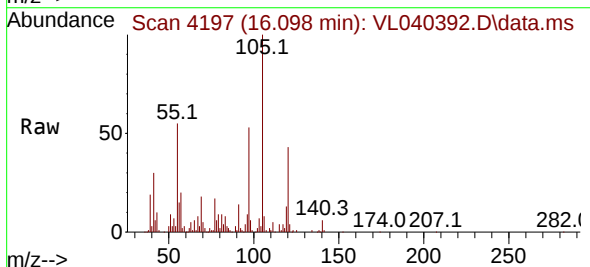
Tgt Ion:105 Resp: 279659
Ion Ratio Lower Upper
105 100
120 44.6 36.9 55.3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/20/2023
Supervised By :Mahesh Dadoda 04/22/2023



#74
1,2,4-Trimethylbenzene
Concen: 1.045 ppbv
RT: 16.098 min Scan# 4197
Delta R.T. -0.019 min
Lab File: VL040392.D
Acq: 19 Apr 2023 23:02



Tgt Ion:105 Resp: 362713
Ion Ratio Lower Upper
105 100
120 42.8 38.9 58.3
91 12.9 46.0 69.0#
77 15.2 20.0 30.0#

