

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062922\
 Data File : VL039408.D
 Acq On : 29 Jun 2022 23:03
 Operator : SY/AP
 Sample : N3530-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/01/2022
 Supervised By :Mahesh Dadoda 07/01/2022

Quant Time: Jun 30 05:45:05 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jun 30 05:40:11 2022

QLast Update : Thu Jun 30 05:40:11 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.655	49	1083945	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	7.160	114	2985672	10.000	ppbv	0.00
55) Chlorobenzene-d5	12.066	117	2583071	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.394	95	2001562	10.445	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.041	85	43764	0.280	ppbv	90
3) Chlorodifluoromethane	2.983	51	110330	0.802	ppbv #	86
4) Chloromethane	3.134	50	38241	0.508	ppbv	95
9) Propene	3.015	41	98943m	1.593	ppbv	
10) Heptane	8.111	43	24137m	0.166	ppbv	
11) Trichlorofluoromethane	3.941	101	42757	0.245	ppbv	99
13) Ethanol	3.591	45	1020874	283.329	ppbv	72
15) Acetone	3.838	43	1210710	9.441	ppbv	96
19) Isopropyl Alcohol	3.960	45	200014	2.924	ppbv #	92
20) Methylene Chloride	4.337	84	92738	1.814	ppbv	97
26) Hexane	5.674	57	117011	1.104	ppbv #	58
29) Chloroform	5.742	83	69026	0.375	ppbv	86
30) Cyclohexane	7.140	84	25454m	0.264	ppbv	
34) 2-Butanone	5.234	43	86336	0.574	ppbv	93
35) Carbon Tetrachloride	7.002	117	13055m	0.071	ppbv	
36) Benzene	6.877	78	76154	0.330	ppbv #	92
44) 2,2,4-Trimethylpentane	7.857	57	176653m	0.451	ppbv	
52) Tetrachloroethene	11.201	164	5853m	0.063	ppbv	
53) Toluene	9.790	91	407402	1.528	ppbv	100
58) Ethyl Benzene	12.687	91	91289m	0.274	ppbv	
59) m/p-Xylene	12.944	91	321425m	1.093	ppbv	
60) o-Xylene	13.674	91	111915	0.402	ppbv	97
65) tert-Butylbenzene	16.741	119	40982	0.105	ppbv #	38
72) 4-Ethyltoluene	15.815	105	156575m	0.478	ppbv	
73) 1,3,5-Trimethylbenzene	15.976	105	125576m	0.418	ppbv	
74) 1,2,4-Trimethylbenzene	16.741	105	404906	1.217	ppbv #	70

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

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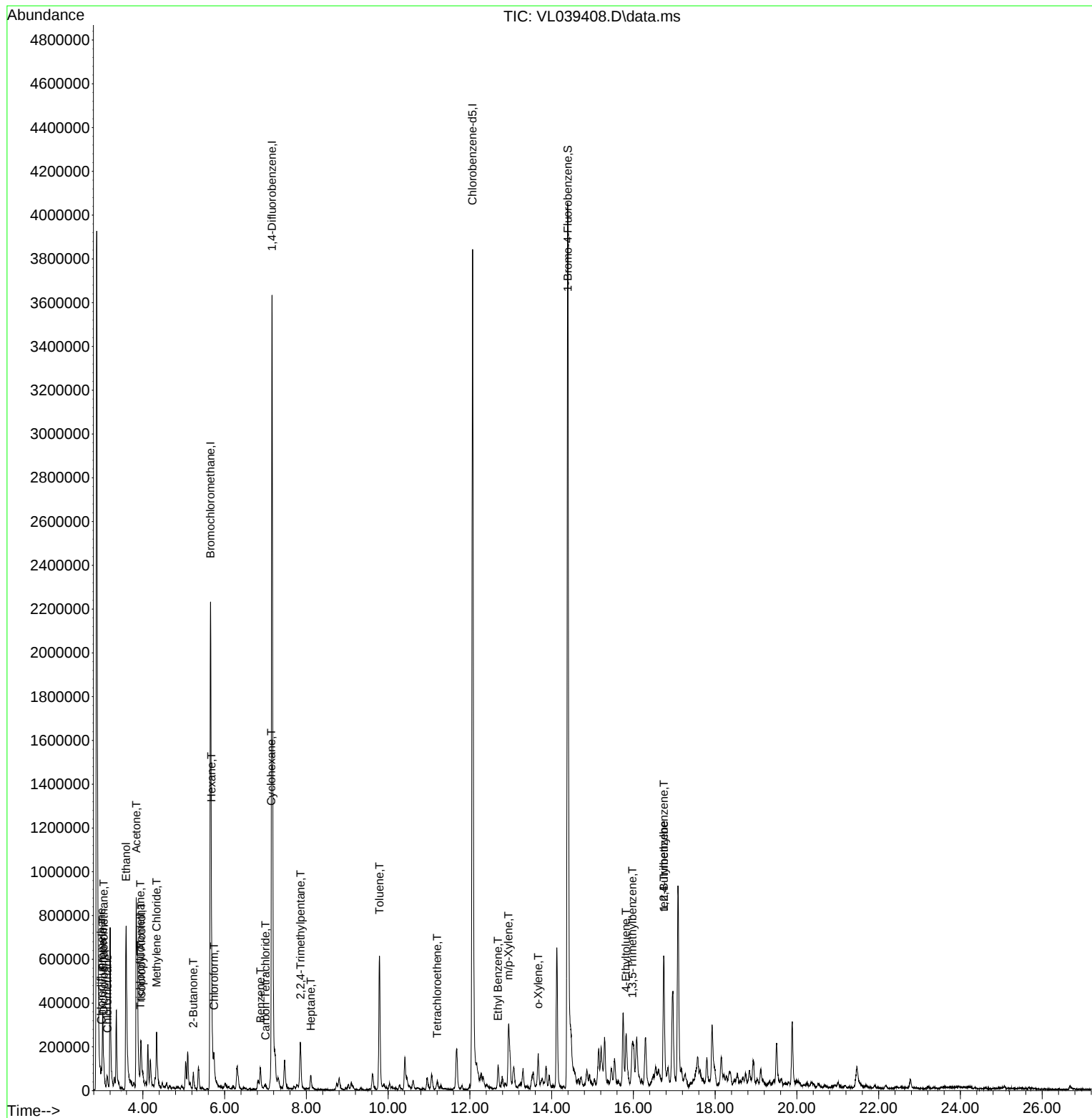
Quant Time: Jun 30 05:45:05 2022

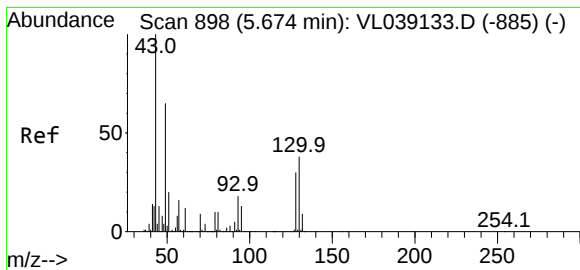
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jun

QLast Update : Thu Jun 30 05:40:11 2022

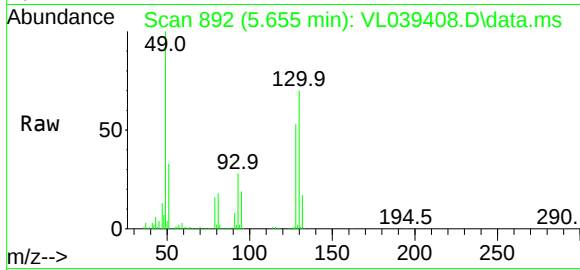
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.655 min Scan# 89
Delta R.T. 0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

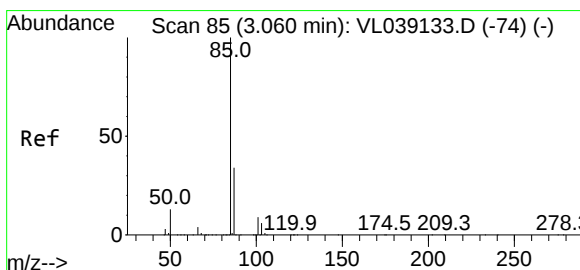
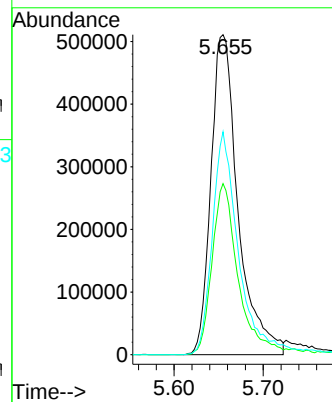
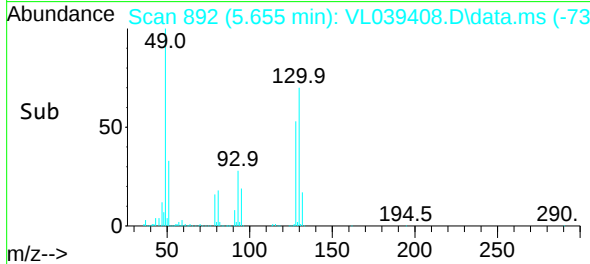
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 108394
Ion Ratio Lower Upper
49 100
128 54.1 26.7 80.0
130 68.3 34.3 102.8

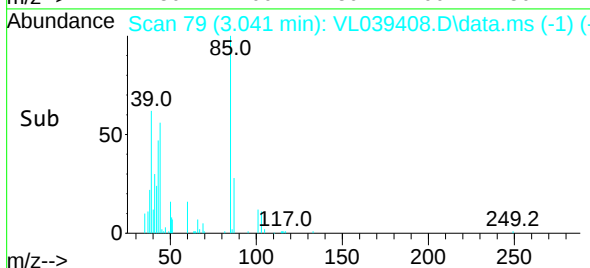
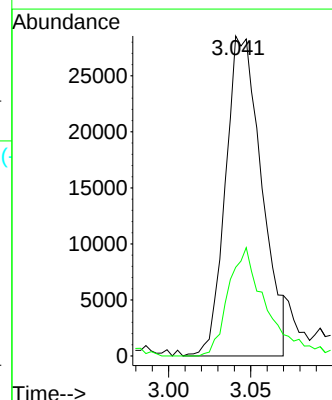
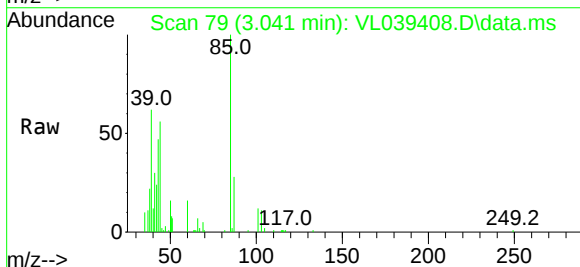
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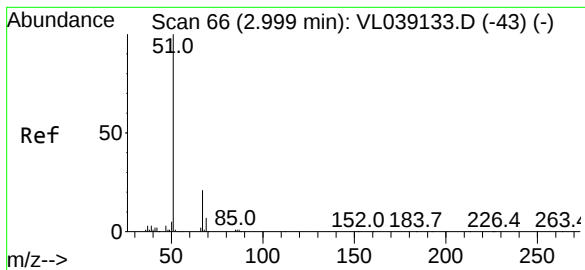
Reviewed By :Semsettin Yesilyurt 07/01/2022
Supervised By :Mahesh Dadoda 07/01/2022



#2
Dichlorodifluoromethane
Concen: 0.280 ppbv
RT: 3.041 min Scan# 79
Delta R.T. -0.000 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

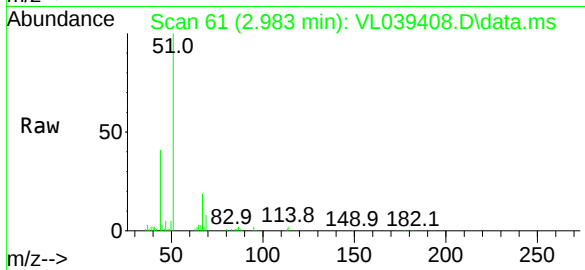
Tgt Ion: 85 Resp: 43764
Ion Ratio Lower Upper
85 100
87 27.7 26.7 40.1





#3
Chlorodifluoromethane
Concen: 0.802 ppbv
RT: 2.983 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

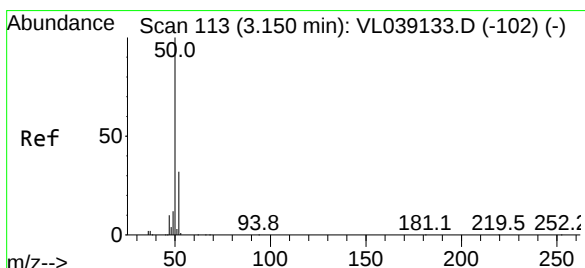
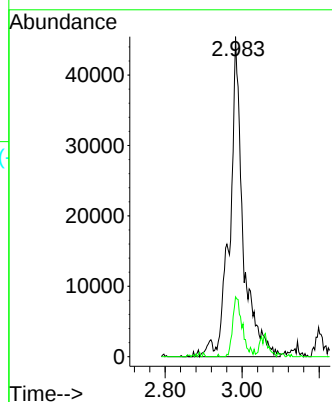
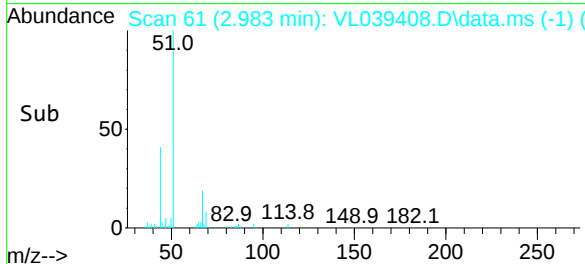
Instrument :
MSVOA_L
ClientSampleId :
IA1



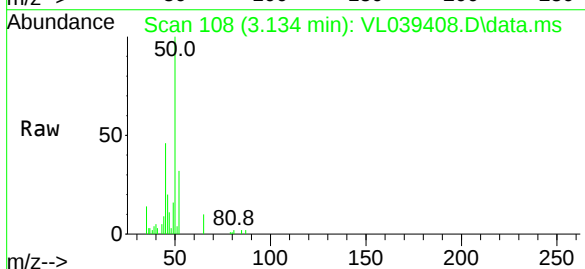
Tgt Ion: 51 Resp: 110330
Ion Ratio Lower Upper
51 100
67 13.4 15.7 23.5

Manual Integrations
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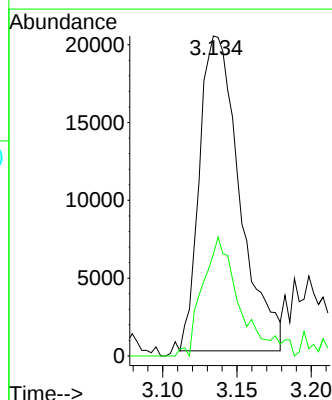
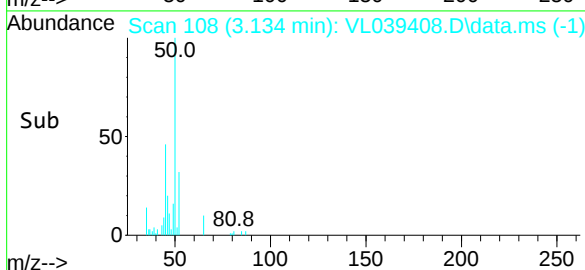
Reviewed By :Semsettin Yesilyurt 07/01/2022
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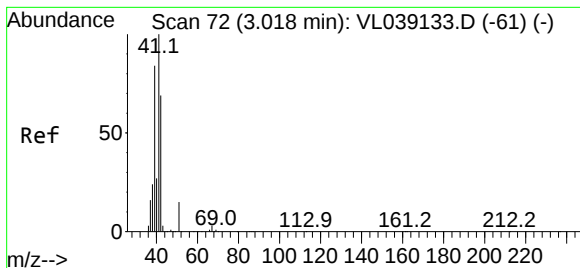


#4
Chloromethane
Concen: 0.508 ppbv
RT: 3.134 min Scan# 108
Delta R.T. 0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03



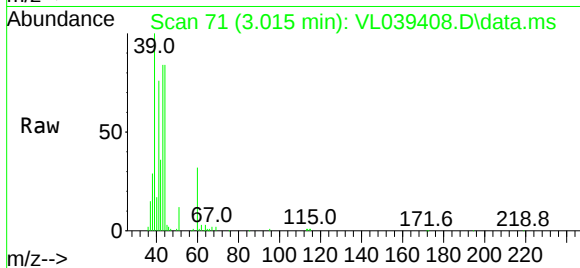
Tgt Ion: 50 Resp: 38241
Ion Ratio Lower Upper
50 100
52 30.1 26.5 39.7





#9
 Propene
 Concen: 1.593 ppbv m
 RT: 3.015 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL039408.D
 Acq: 29 Jun 2022 23:03

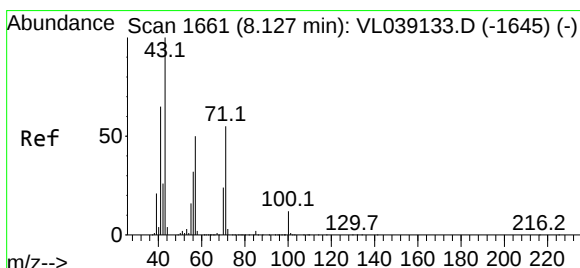
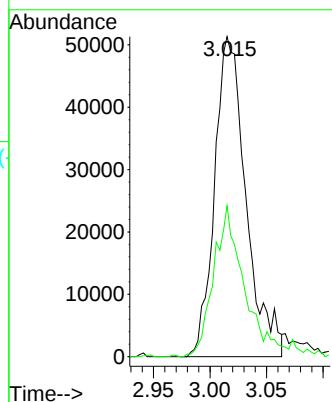
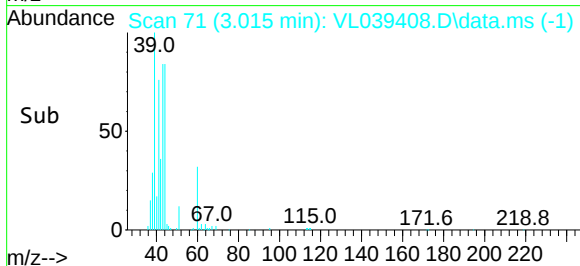
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 41 Resp: 9894
 Ion Ratio Lower Upper
 41 100
 42 168.0 55.2 82.8

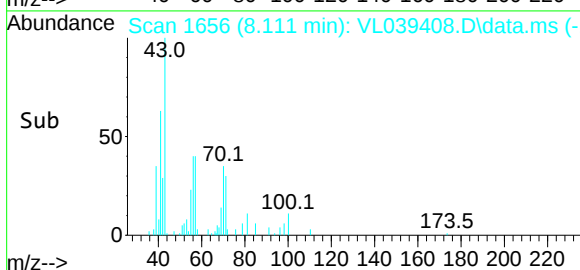
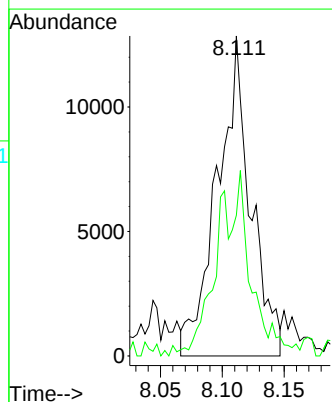
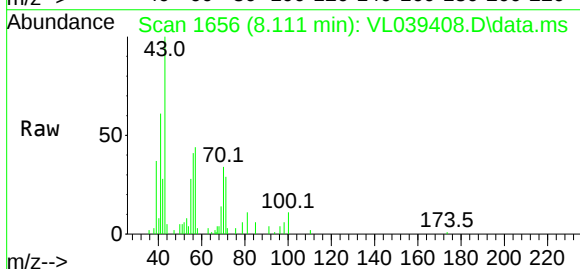
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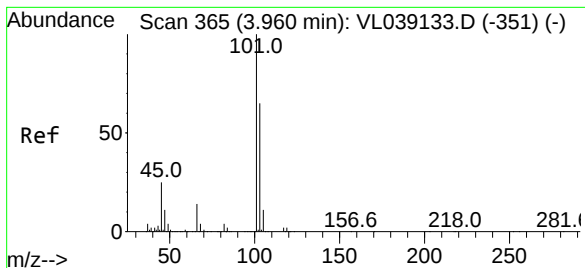
Reviewed By :Semsettin Yesilyurt 07/01/2022
 Supervised By :Mahesh Dadoda 07/01/2022



#10
 Heptane
 Concen: 0.166 ppbv m
 RT: 8.111 min Scan# 1656
 Delta R.T. 0.006 min
 Lab File: VL039408.D
 Acq: 29 Jun 2022 23:03

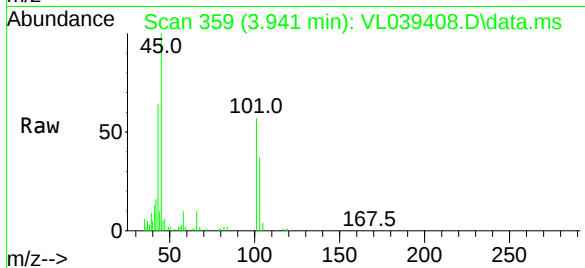
Tgt Ion: 43 Resp: 24137
 Ion Ratio Lower Upper
 43 100
 57 64.0 40.5 60.7





#11
Trichlorofluoromethane
Concen: 0.245 ppbv
RT: 3.941 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

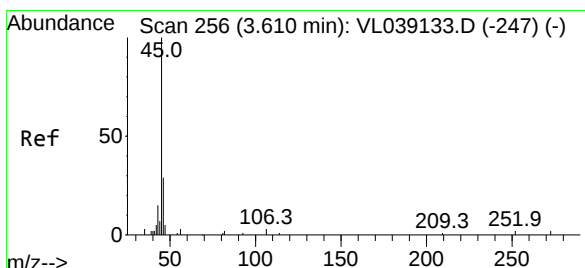
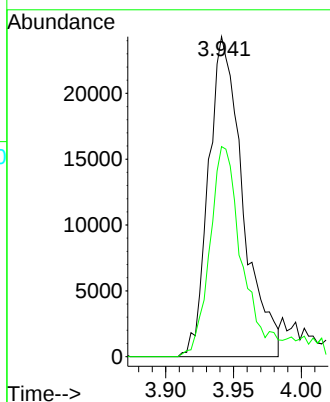
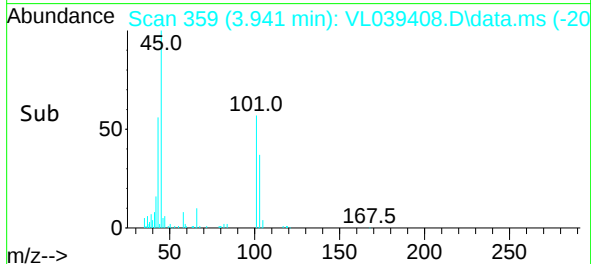
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:101 Resp: 4275
Ion Ratio Lower Upper
101 100
103 65.7 51.8 77.8

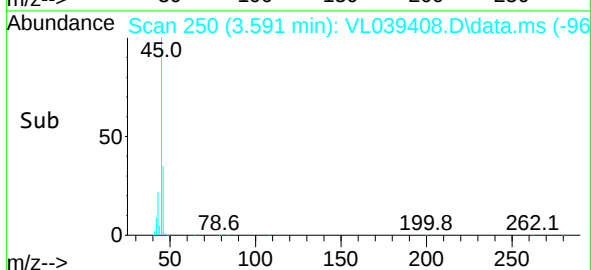
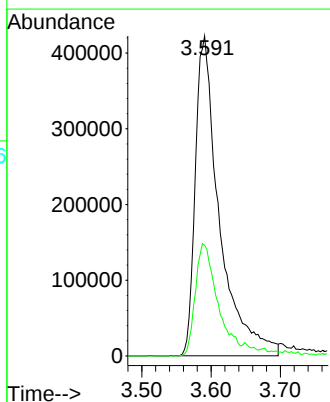
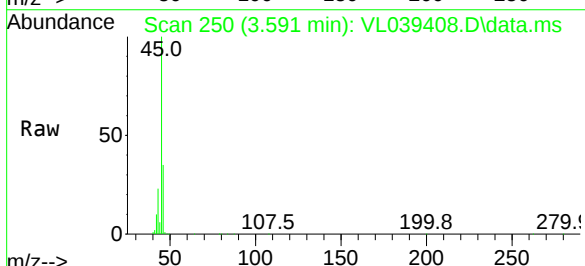
Manual Integrations
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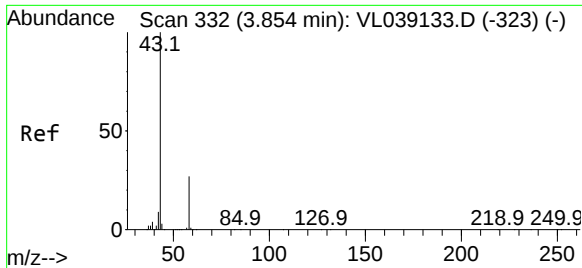
Reviewed By :Semsettin Yesilyurt 07/01/2022
Supervised By :Mahesh Dadoda 07/01/2022



#13
Ethanol
Concen: 283.329 ppbv
RT: 3.591 min Scan# 250
Delta R.T. -0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

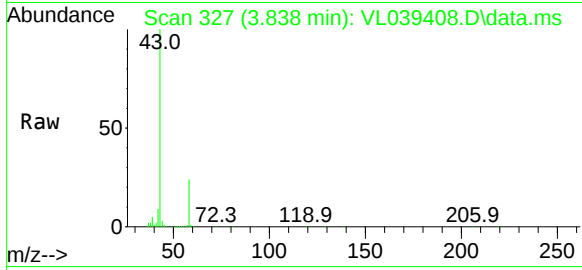
Tgt Ion: 45 Resp: 1020874
Ion Ratio Lower Upper
45 100
46 36.6 22.8 91.2





#15
Acetone
Concen: 9.441 ppbv
RT: 3.838 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

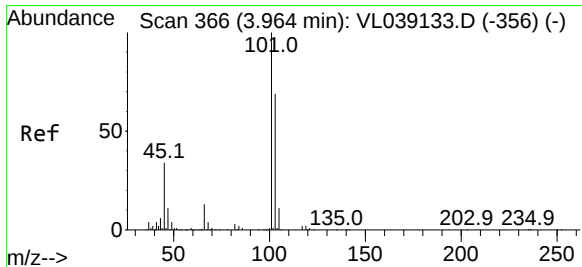
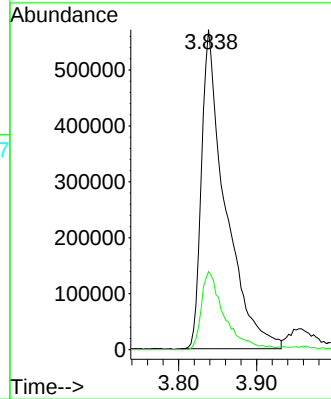
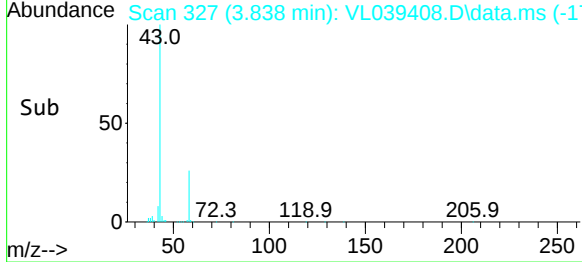
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 1210710
Ion Ratio Lower Upper
43 100
58 24.1 21.0 31.6

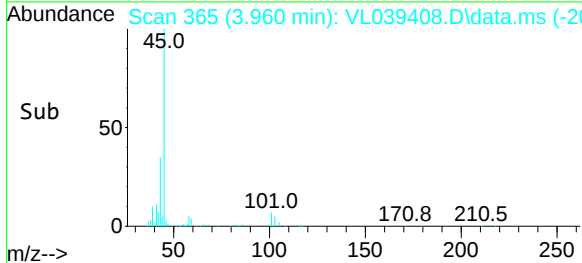
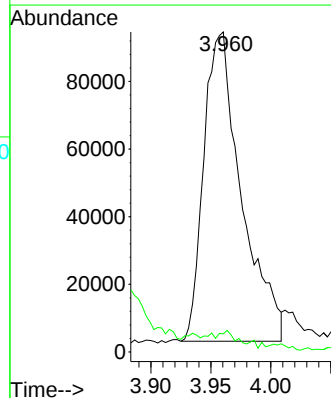
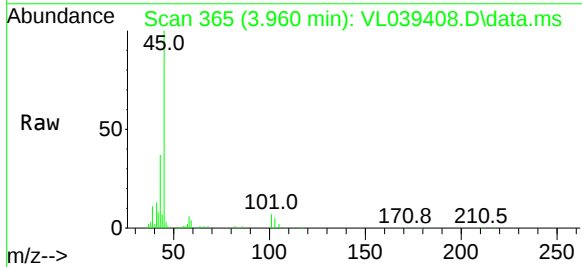
Manual Integrations
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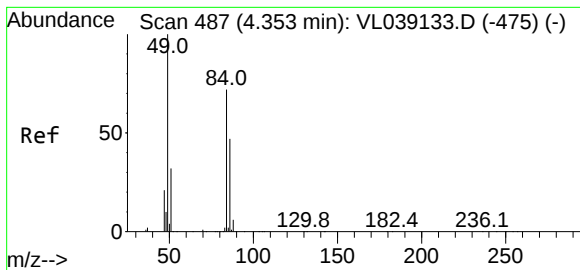
Reviewed By :Semsettin Yesilyurt 07/01/2022
Supervised By :Mahesh Dadoda 07/01/2022



#19
Isopropyl Alcohol
Concen: 2.924 ppbv
RT: 3.960 min Scan# 365
Delta R.T. 0.013 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

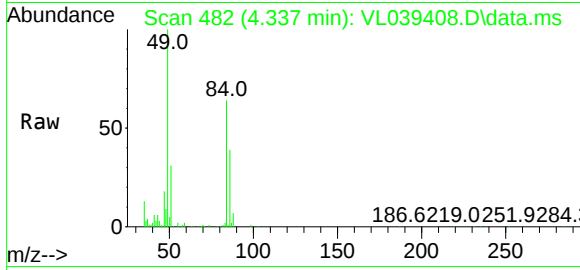
Tgt Ion: 45 Resp: 200014
Ion Ratio Lower Upper
45 100
58 6.7 3.2 4.8#





#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 4.337 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

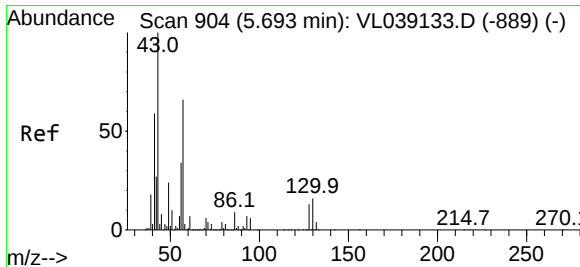
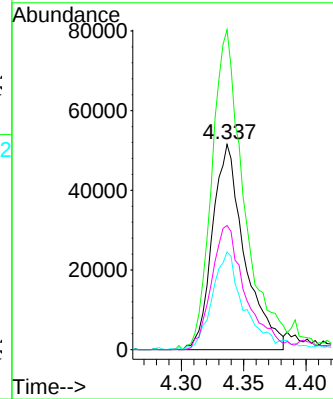
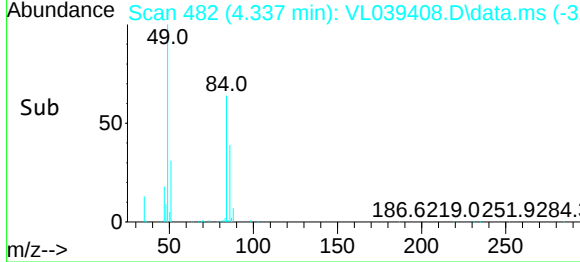
Instrument :
MSVOA_L
ClientSampleId :
IA1



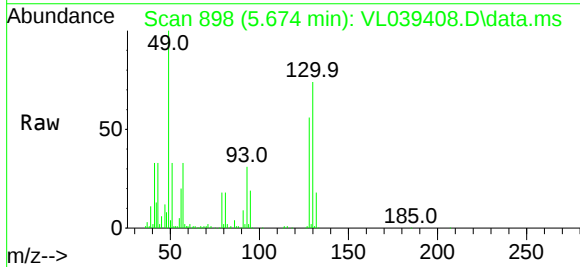
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Ion Ratio Lower Upper
84 100
49 155.8 123.1 184.7
51 47.6 34.4 51.6
86 60.5 51.1 76.7

Manual Integrations
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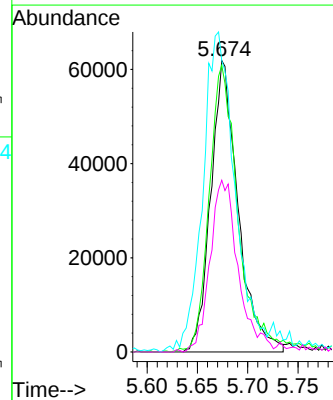
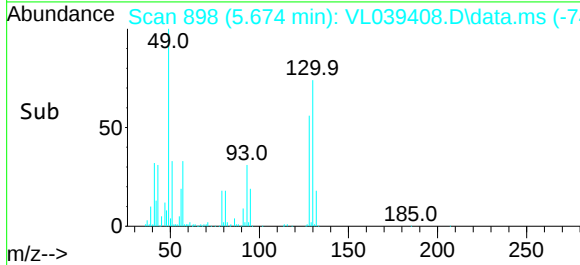
Reviewed By :Semsettin Yesilyurt 07/01/2022
Supervised By :Mahesh Dadoda 07/01/2022

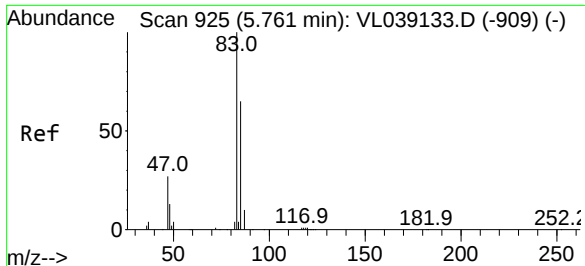


#26
Hexane
Concen: 1.104 ppbv
RT: 5.674 min Scan# 898
Delta R.T. 0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03



Tgt Ion: 57 Resp: 117011
Ion Ratio Lower Upper
57 100
41 105.8 76.9 115.3
43 133.8 191.0 286.6#
56 62.0 43.2 64.8





#29

Chloroform

Concen: 0.375 ppbv

RT: 5.742 min Scan# 919

Delta R.T. 0.006 min

Lab File: VL039408.D

Acq: 29 Jun 2022 23:03

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 83 Resp: 69020

Ion Ratio Lower Upper

83 100

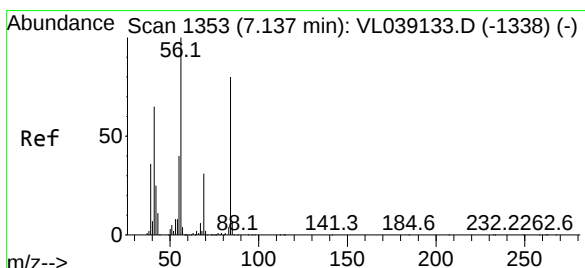
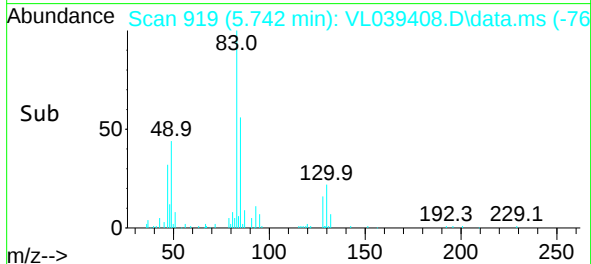
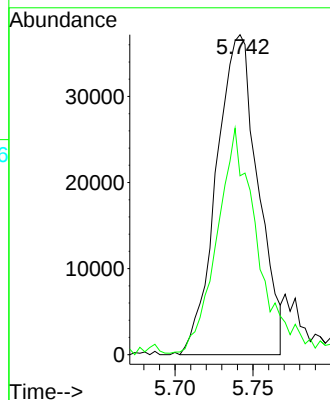
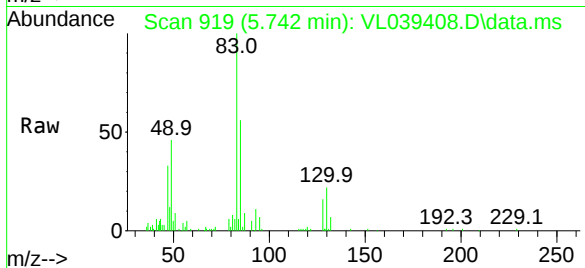
85 55.1 52.8 79.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/01/2022

Supervised By :Mahesh Dadoda 07/01/2022



#30

Cyclohexane

Concen: 0.264 ppbv m

RT: 7.140 min Scan# 1354

Delta R.T. 0.029 min

Lab File: VL039408.D

Acq: 29 Jun 2022 23:03

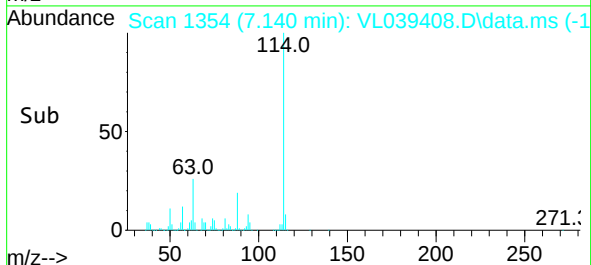
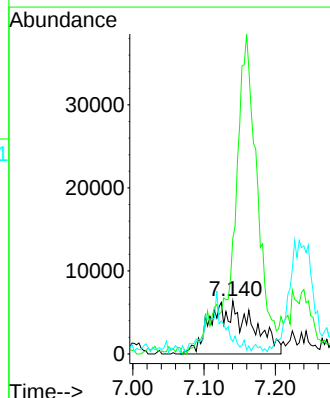
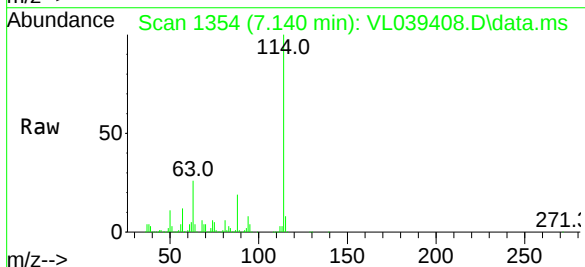
Tgt Ion: 84 Resp: 25454

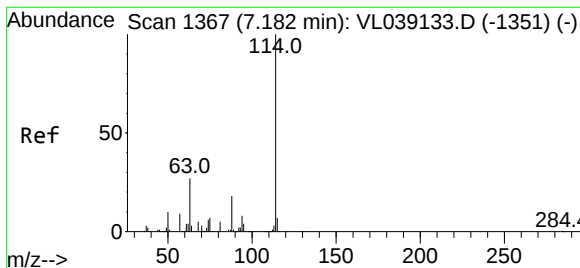
Ion Ratio Lower Upper

84 100

56 0.0 107.7 161.5#

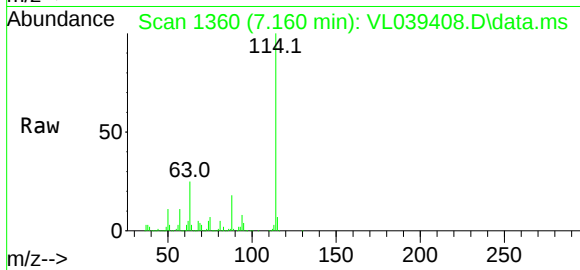
41 54.7 67.7 101.5#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.160 min Scan# 114
Delta R.T. 0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

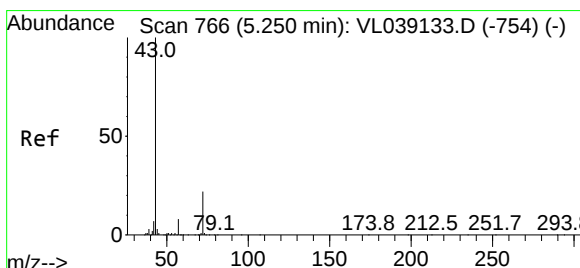
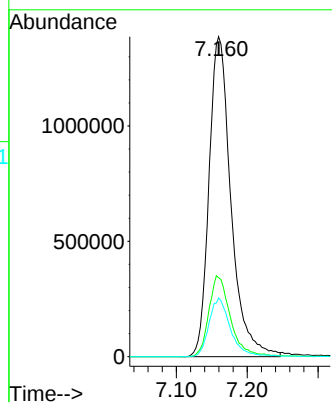
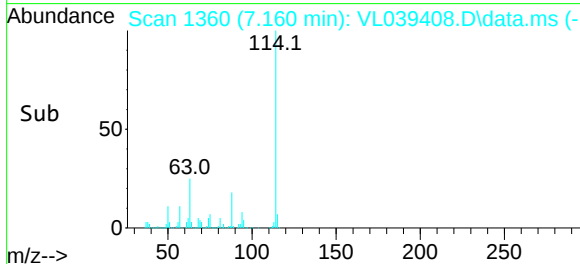
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:114 Resp: 298567
Ion Ratio Lower Upper
114 100
63 25.1 20.2 30.4
88 18.1 14.5 21.7

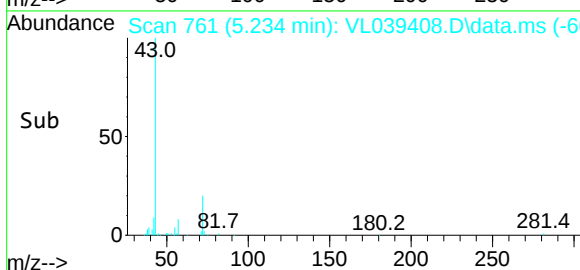
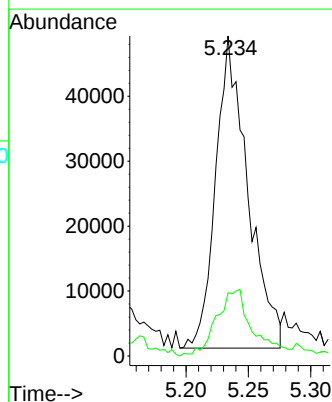
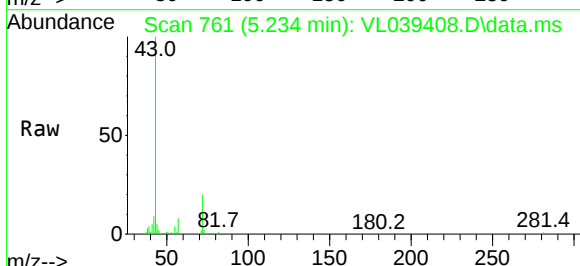
Manual Integrations
APPROVED

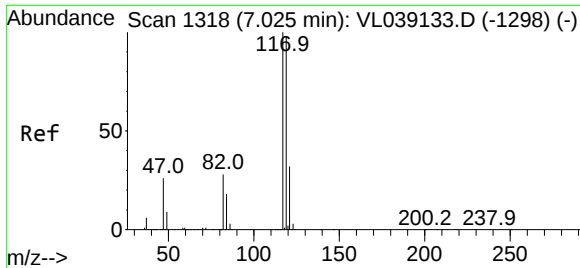
Reviewed By :Semsettin Yesilyurt 07/01/2022
Supervised By :Mahesh Dadoda 07/01/2022



#34
2-Butanone
Concen: 0.574 ppbv
RT: 5.234 min Scan# 761
Delta R.T. 0.010 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

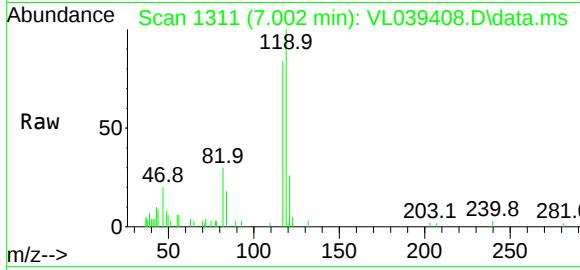
Tgt Ion: 43 Resp: 86336
Ion Ratio Lower Upper
43 100
72 25.7 17.9 26.9





#35
Carbon Tetrachloride
Concen: 0.071 ppbv m
RT: 7.002 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

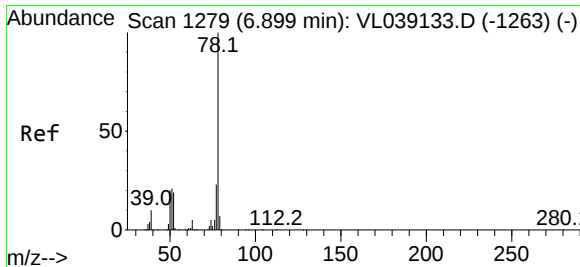
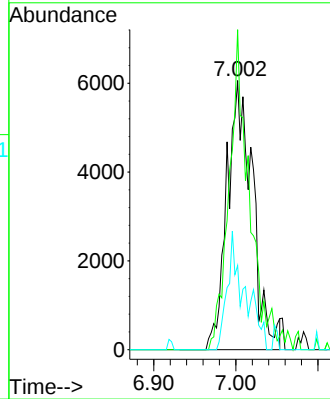
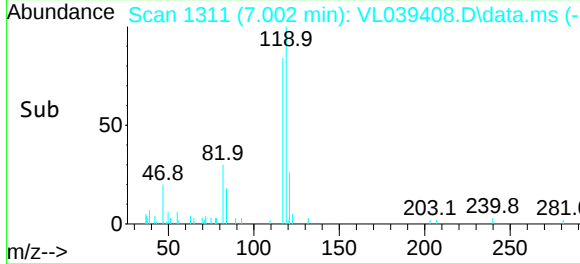
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 1305
Ion Ratio Lower Upper
117 100
119 118.9 75.4 113.2
121 31.3 24.2 36.2

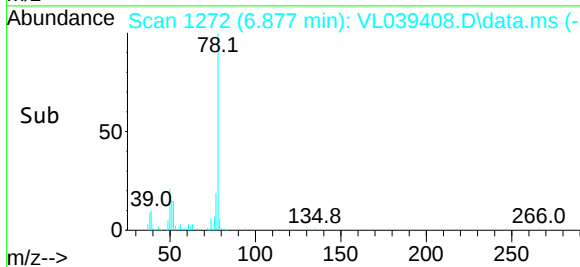
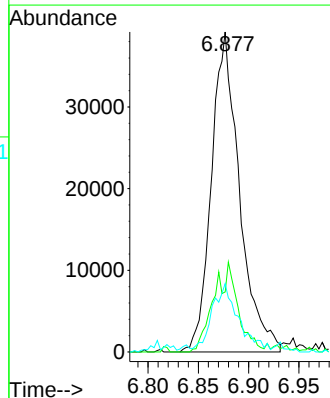
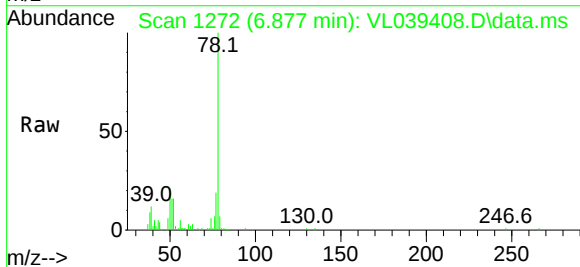
Manual Integrations
APPROVED

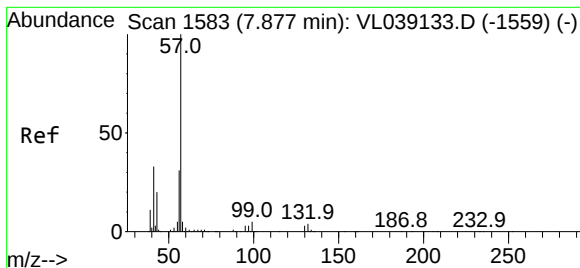
Reviewed By :Semsettin Yesilyurt 07/01/2022
Supervised By :Mahesh Dadoda 07/01/2022



#36
Benzene
Concen: 0.330 ppbv
RT: 6.877 min Scan# 1272
Delta R.T. 0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

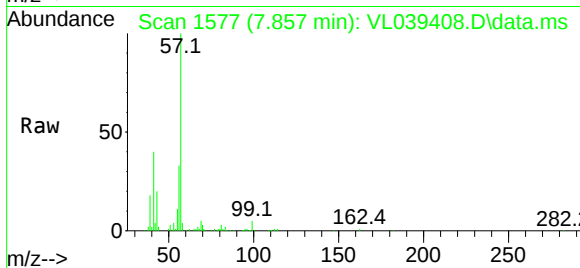
Tgt Ion: 78 Resp: 76154
Ion Ratio Lower Upper
78 100
77 18.8 20.3 30.5
50 20.4 15.5 23.3





#44
2,2,4-Trimethylpentane
Concen: 0.451 ppbv m
RT: 7.857 min Scan# 1577
Delta R.T. 0.006 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

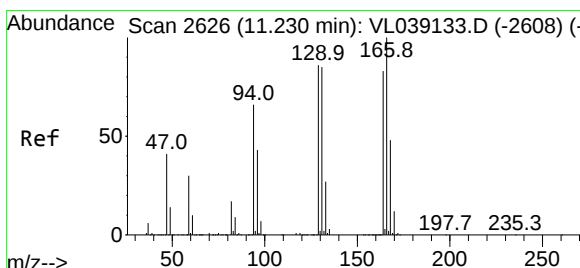
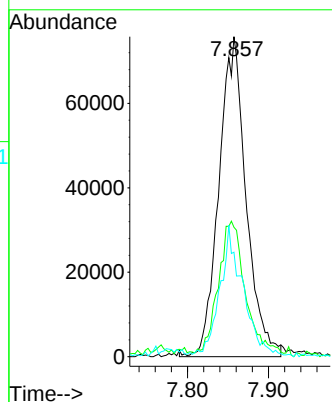
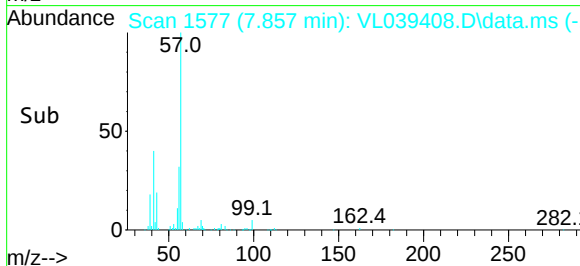
Instrument : MSVOA_L
ClientSampleId : IA1



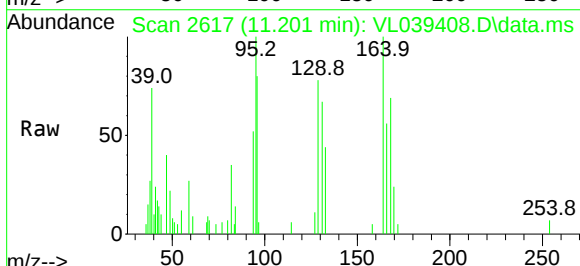
Tgt Ion: 57 Resp: 17665
Ion Ratio Lower Upper
57 100
41 44.3 27.4 41.2
56 0.0 24.5 36.7

Manual Integrations
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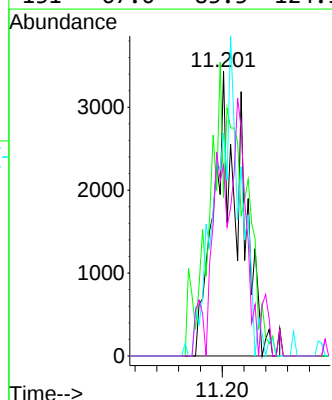
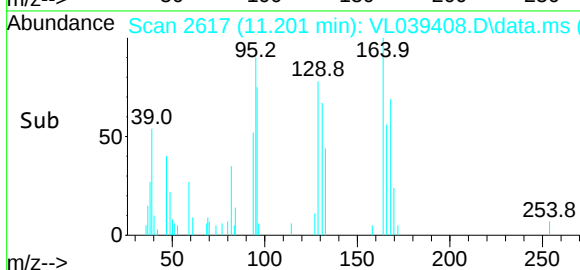
Reviewed By :Semsettin Yesilyurt 07/01/2022
Supervised By :Mahesh Dadoda 07/01/2022

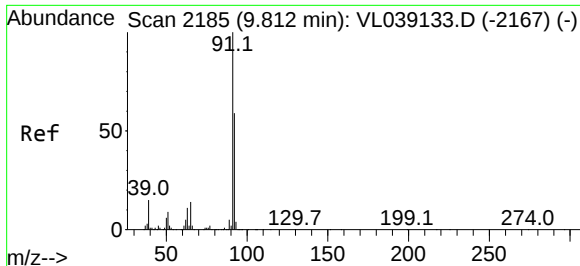


#52
Tetrachloroethene
Concen: 0.063 ppbv m
RT: 11.201 min Scan# 2617
Delta R.T. 0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03



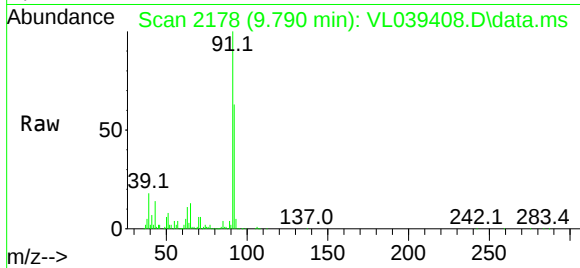
Tgt Ion:164 Resp: 5853
Ion Ratio Lower Upper
164 100
166 55.8 102.2 153.2#
129 78.4 85.8 128.8#
131 67.0 83.3 124.9#





#53
Toluene
Concen: 1.528 ppbv
RT: 9.790 min Scan# 2185
Delta R.T. 0.006 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

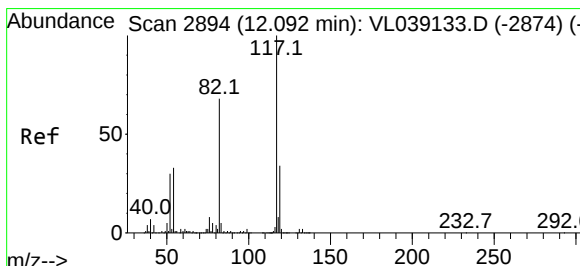
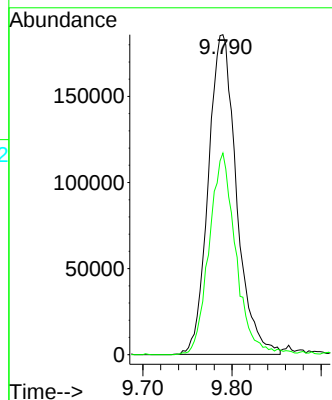
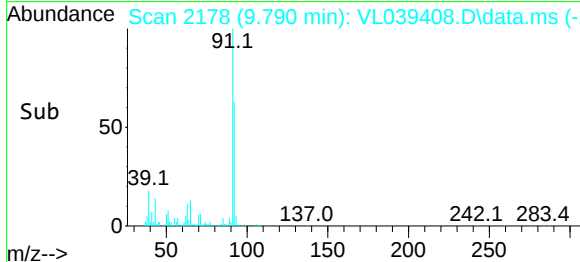
Instrument :
MSVOA_L
ClientSampleId :
IA1



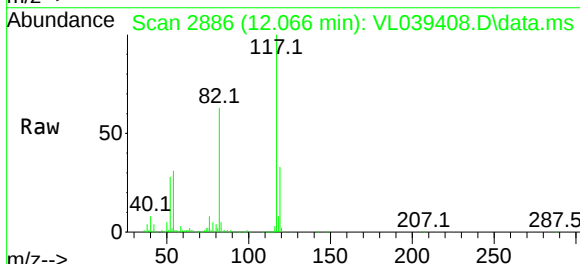
Tgt Ion: 91 Resp: 407402
Ion Ratio Lower Upper
91 100
92 60.6 48.2 72.2

Manual Integrations
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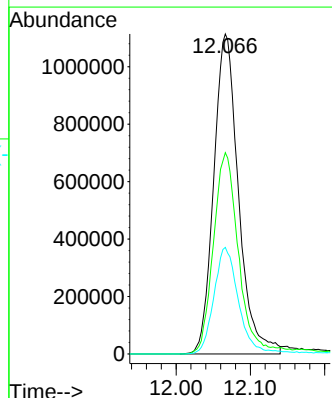
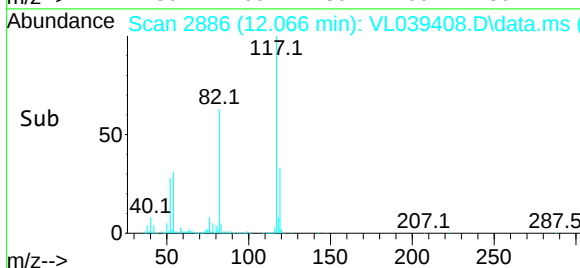
Reviewed By :Semsettin Yesilyurt 07/01/2022
Supervised By :Mahesh Dadoda 07/01/2022

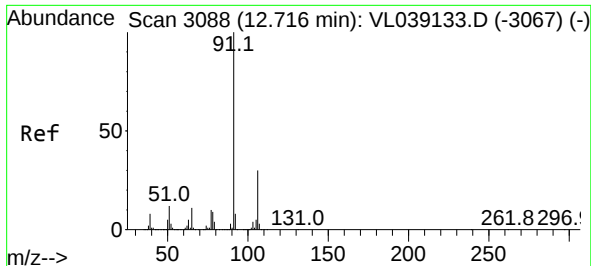


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.066 min Scan# 2886
Delta R.T. -0.000 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03



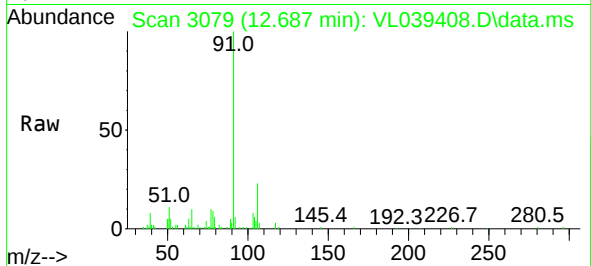
Tgt Ion:117 Resp: 2583071
Ion Ratio Lower Upper
117 100
82 66.3 50.8 76.2
119 34.0 24.1 36.1





#58
Ethyl Benzene
Concen: 0.274 ppbv m
RT: 12.687 min Scan# 3088
Delta R.T. -0.000 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

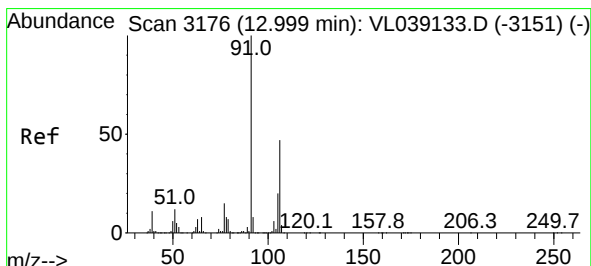
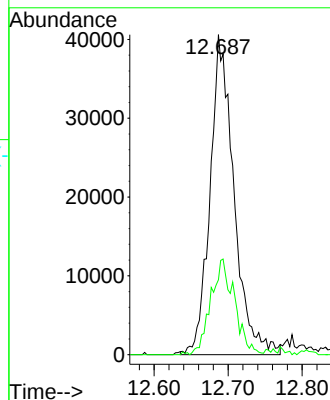
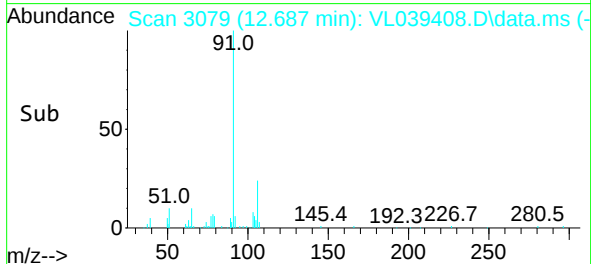
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 91 Resp: 91289
Ion Ratio Lower Upper
91 100
106 23.4 25.4 38.0

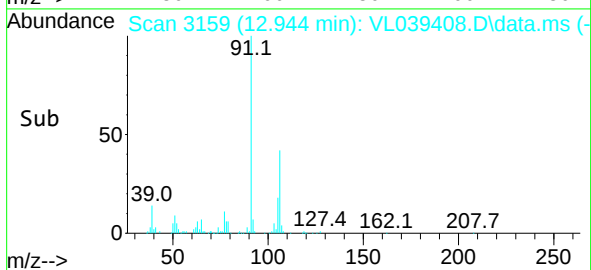
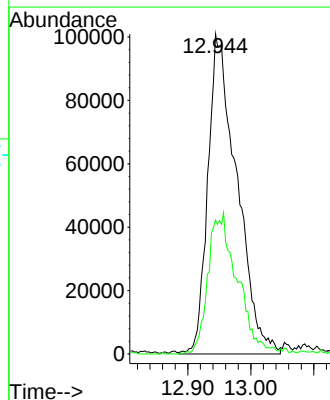
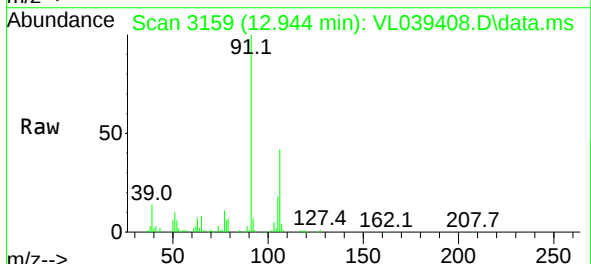
Manual Integrations
APPROVED

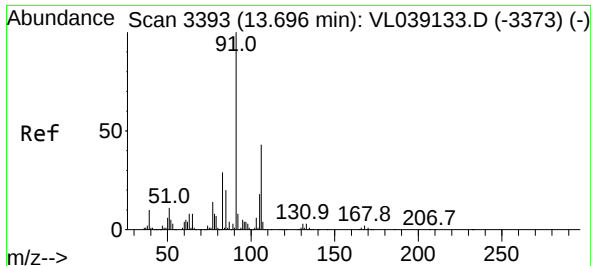
Reviewed By :Semsettin Yesilyurt 07/01/2022
Supervised By :Mahesh Dadoda 07/01/2022



#59
m/p-Xylene
Concen: 1.093 ppbv m
RT: 12.944 min Scan# 3159
Delta R.T. -0.029 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

Tgt Ion: 91 Resp: 321425
Ion Ratio Lower Upper
91 100
106 44.8 35.4 53.2





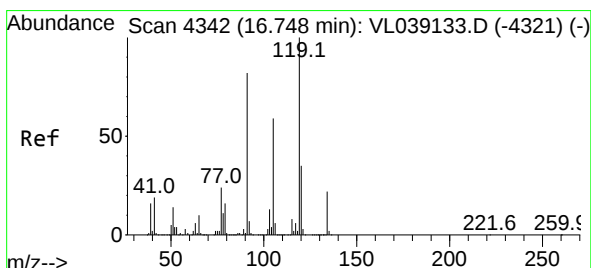
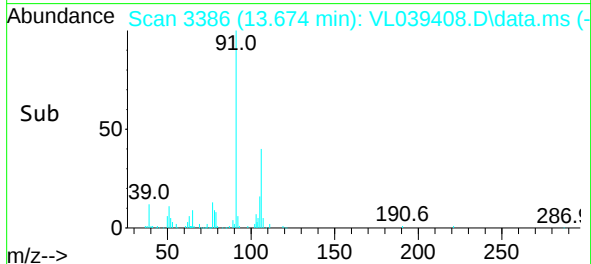
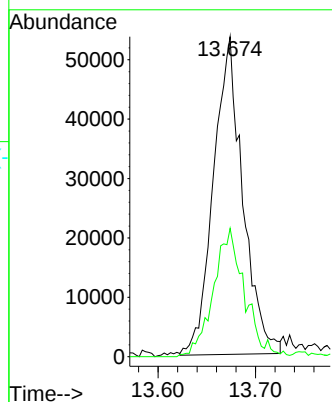
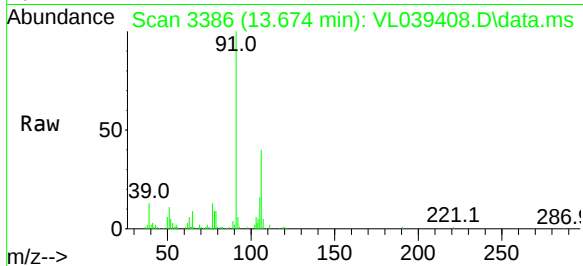
#60
o-Xylene
Concen: 0.402 ppbv
RT: 13.674 min Scan# 311
Delta R.T. 0.006 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 11191
Ion Ratio Lower Upper
91 100
106 42.6 22.4 67.3

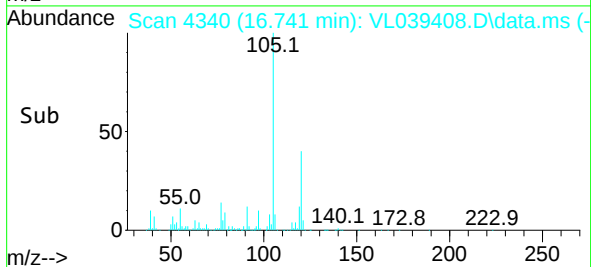
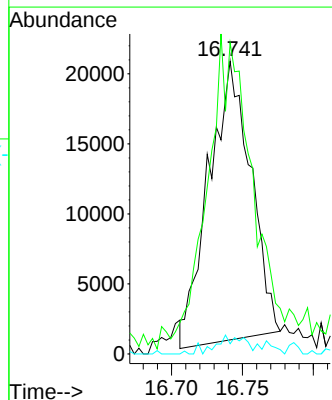
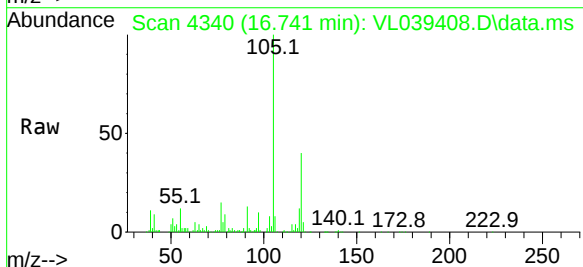
Manual Integrations
APPROVED

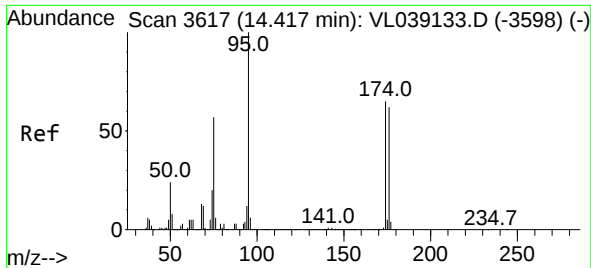
Reviewed By :Semsettin Yesilyurt 07/01/2022
Supervised By :Mahesh Dadoda 07/01/2022



#65
tert-Butylbenzene
Concen: 0.105 ppbv
RT: 16.741 min Scan# 4340
Delta R.T. 0.022 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

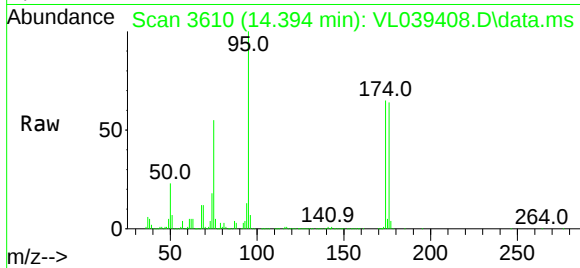
Tgt Ion:119 Resp: 40982
Ion Ratio Lower Upper
119 100
91 139.9 63.4 95.2#
134 4.7 15.9 23.9#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.445 ppbv
RT: 14.394 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03

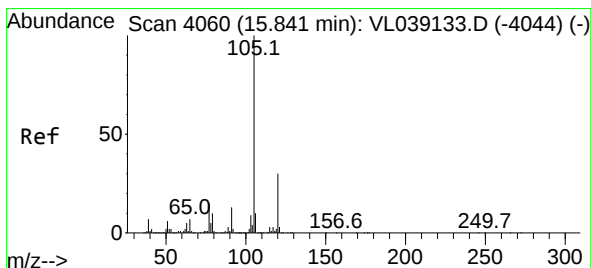
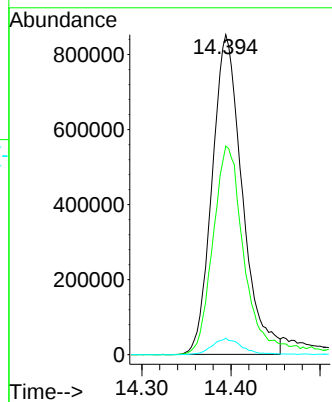
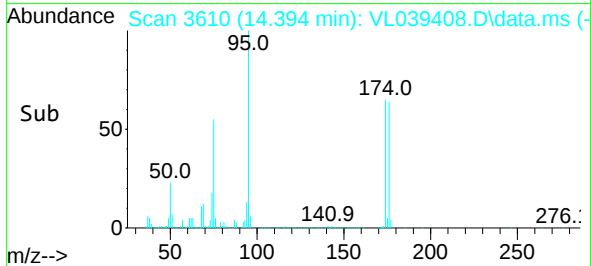
Instrument :
MSVOA_L
ClientSampleId :
IA1



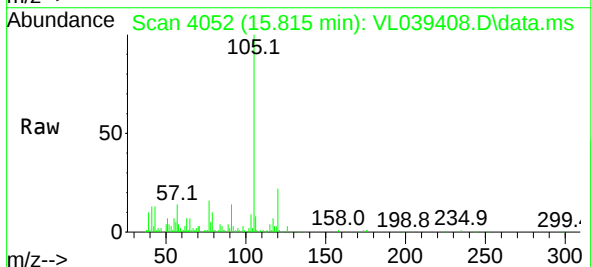
Tgt Ion: 95 Resp: 200156
Ion Ratio Lower Upper
95 100
174 71.3 55.9 83.9
175 5.3 4.2 6.4

Manual Integrations
APPROVED

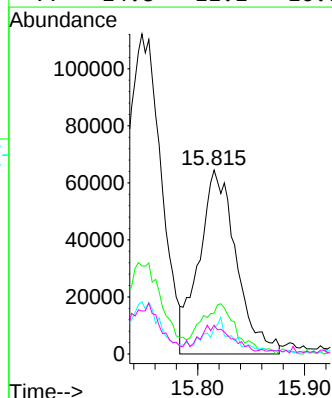
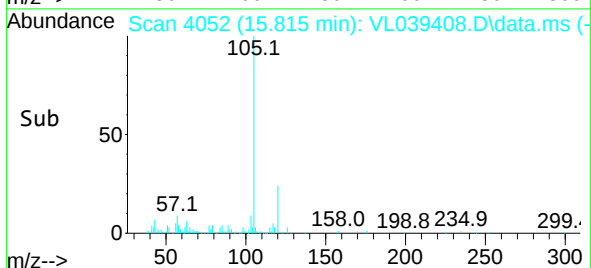
Reviewed By :Semsettin Yesilyurt 07/01/2022
Supervised By :Mahesh Dadoda 07/01/2022

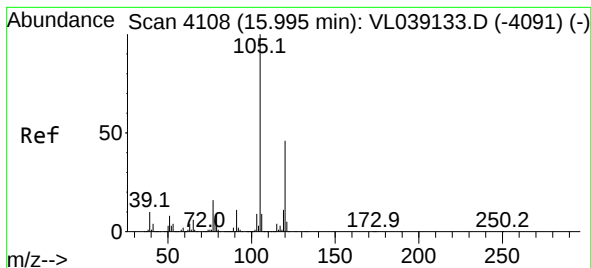


#72
4-Ethyltoluene
Concen: 0.478 ppbv m
RT: 15.815 min Scan# 4052
Delta R.T. -0.000 min
Lab File: VL039408.D
Acq: 29 Jun 2022 23:03



Tgt Ion:105 Resp: 156575
Ion Ratio Lower Upper
105 100
120 0.0 24.2 36.2#
91 0.0 10.2 15.4#
77 14.8 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.418 ppbv m

RT: 15.976 min Scan# 4108

Delta R.T. 0.003 min

Lab File: VL039408.D

Acq: 29 Jun 2022 23:03

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:105 Resp: 125570

Ion Ratio Lower Upper

105 100

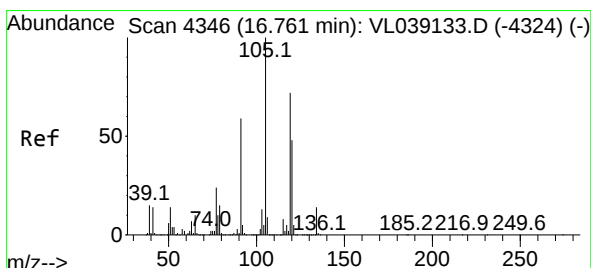
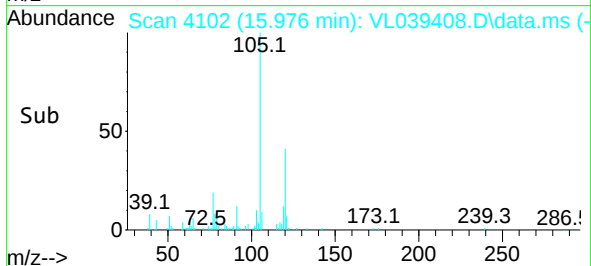
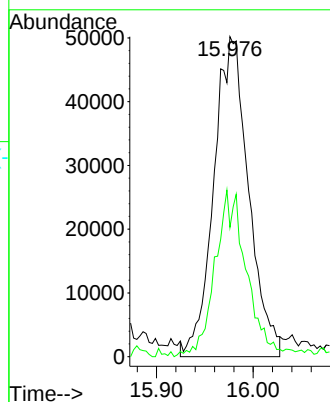
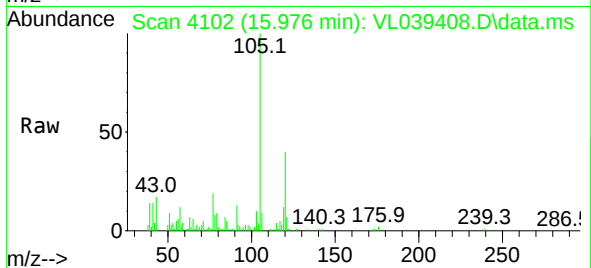
120 40.4 38.2 57.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/01/2022

Supervised By :Mahesh Dadoda 07/01/2022



#74

1,2,4-Trimethylbenzene

Concen: 1.217 ppbv

RT: 16.741 min Scan# 4340

Delta R.T. 0.003 min

Lab File: VL039408.D

Acq: 29 Jun 2022 23:03

Tgt Ion:105 Resp: 404906

Ion Ratio Lower Upper

105 100

120 40.2 39.5 59.3

91 12.5 39.2 58.8#

77 14.4 17.2 25.8#

