

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071222\
 Data File : VL039453.D
 Acq On : 12 Jul 2022 18:02
 Operator : SY/AP
 Sample : N3660-04 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-7

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022
 Supervised By :Mahesh Dadoda 07/13/2022

Quant Time: Jul 13 01:37:27 2022

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul 13 11:30:07 2022

QLast Update : Wed Jul 06 02:15:38 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.690	49	1586021	10.000	ppbv	0.04
33) 1,4-Difluorobenzene	7.195	114	4185595	10.000	ppbv	0.04
55) Chlorobenzene-d5	12.105	117	3852344	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.433	95	2949842	10.322	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.060	85	89678	0.392	ppbv	90
3) Chlorodifluoromethane	2.999	51	32322m	0.161	ppbv	
9) Propene	3.031	41	25913m	0.285	ppbv	
10) Heptane	8.147	43	23636m	0.111	ppbv	
11) Trichlorofluoromethane	3.967	101	44243	0.174	ppbv	95
13) Ethanol	3.620	45	131790	24.998	ppbv	82
15) Acetone	3.870	43	924904	4.929	ppbv	97
17) tert-Butyl alcohol	4.324	59	19547m	0.123	ppbv	
20) Methylene Chloride	4.369	84	1672638	22.364	ppbv	96
26) Hexane	5.713	57	2836179	18.288	ppbv #	37
27) Carbon Disulfide	4.568	76	22121	0.118	ppbv #	73
29) Chloroform	5.774	83	123589	0.458	ppbv	99
30) Cyclohexane	7.153	84	18266m	0.129	ppbv	
32) 1,1,1-Trichloroethane	6.539	97	11629m	0.044	ppbv	
34) 2-Butanone	5.269	43	62024	0.294	ppbv	97
52) Tetrachloroethene	11.243	164	166839	1.279	ppbv	93
53) Toluene	9.828	91	135117	0.362	ppbv	99
58) Ethyl Benzene	12.732	91	180688	0.363	ppbv	99
59) m/p-Xylene	12.983	91	656475	1.497	ppbv	96
60) o-Xylene	13.713	91	356217	0.858	ppbv	100
64) n-propylbenzene	15.577	120	26777	0.167	ppbv	86
65) tert-Butylbenzene	16.780	119	74836m	0.128	ppbv	
72) 4-Ethyltoluene	15.854	105	166555m	0.341	ppbv	
73) 1,3,5-Trimethylbenzene	16.015	105	240844	0.537	ppbv	94
74) 1,2,4-Trimethylbenzene	16.780	105	625415	1.261	ppbv #	71

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

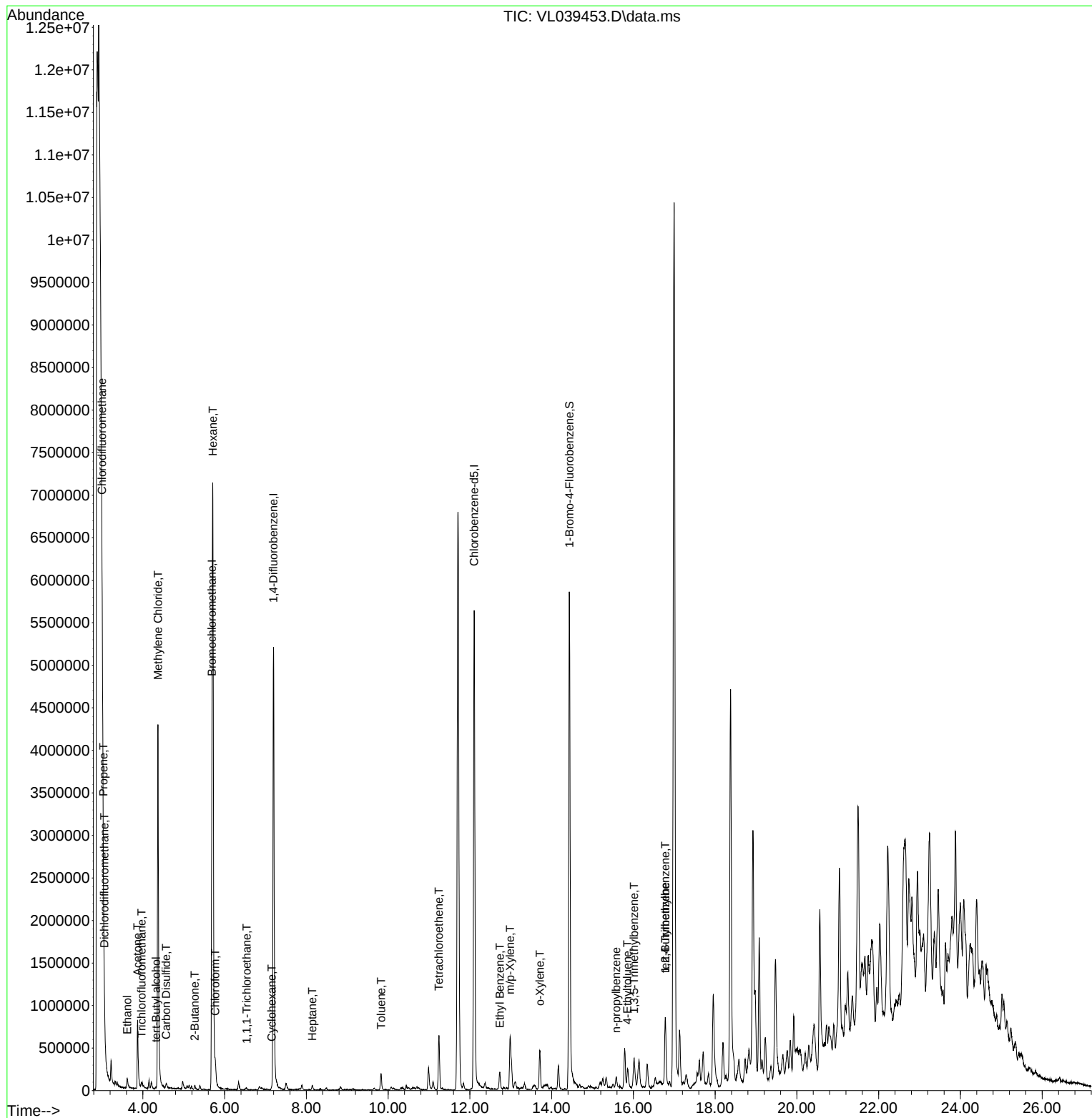
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071222\
Data File : VL039453.D
Acq On : 12 Jul 2022 18:02
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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

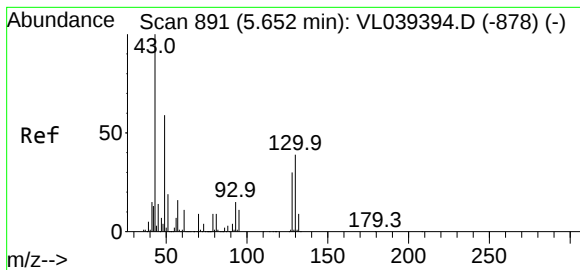
Instrument :
MSVOA_L
ClientSampleId :
SG-7

Quant Time: Jul 13 01:37:27 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jul
QLast Update : Wed Jul 06 02:15:38 2022
Response via : Initial Calibration

Manual Integrations
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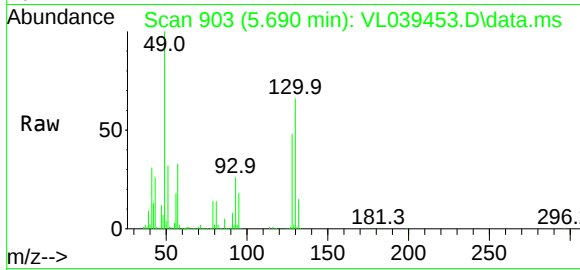
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.690 min Scan# 90
Delta R.T. 0.039 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

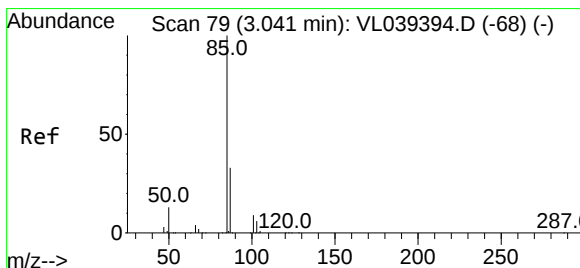
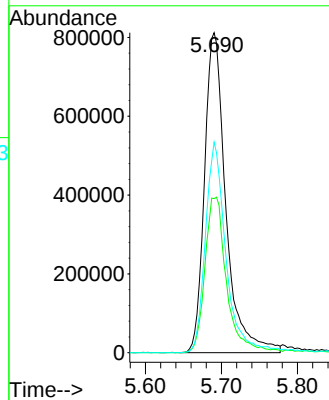
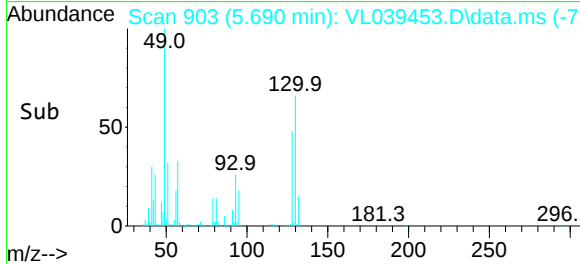
Instrument :
MSVOA_L
ClientSampleId :
SG-7



Tgt Ion: 49 Resp: 158602
Ion Ratio Lower Upper
49 100
128 50.0 26.7 80.0
130 65.1 34.3 102.8

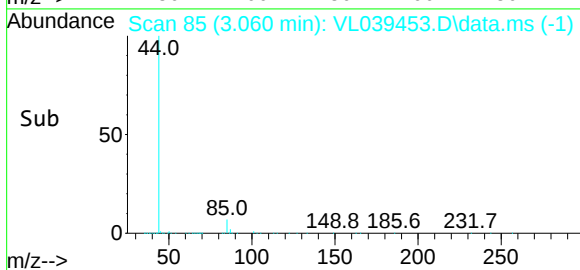
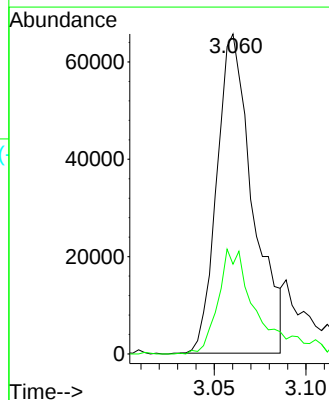
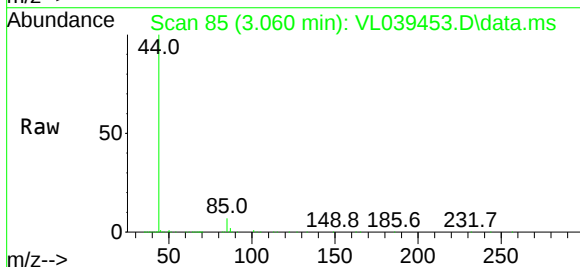
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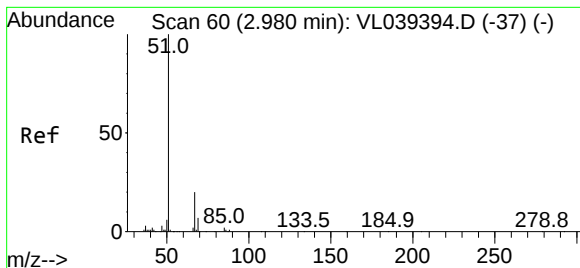
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#2
Dichlorodifluoromethane
Concen: 0.392 ppbv
RT: 3.060 min Scan# 85
Delta R.T. 0.019 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

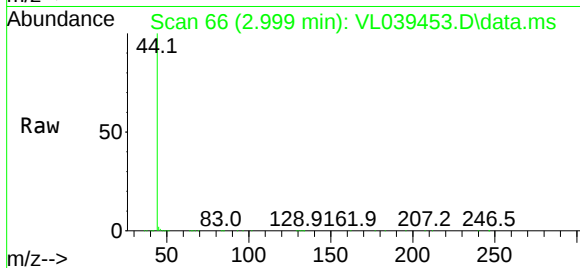
Tgt Ion: 85 Resp: 89678
Ion Ratio Lower Upper
85 100
87 27.9 26.7 40.1





#3
Chlorodifluoromethane
Concen: 0.161 ppbv m
RT: 2.999 min Scan# 60
Delta R.T. 0.019 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

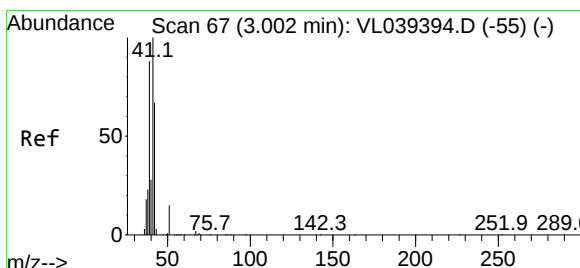
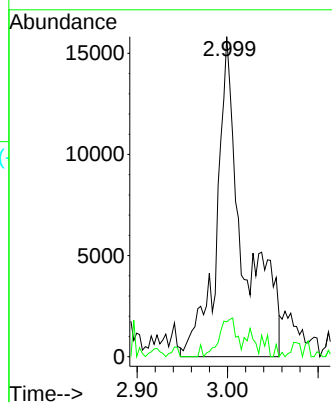
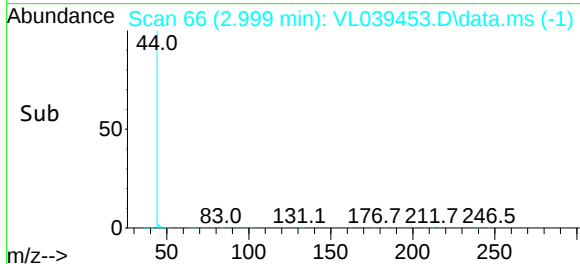
Instrument :
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ClientSampleId :
SG-7



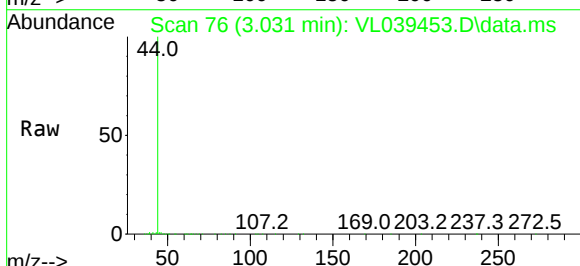
Tgt Ion: 51 Resp: 3232
Ion Ratio Lower Upper
51 100
67 12.2 15.7 23.5

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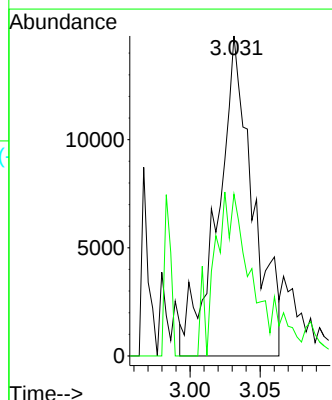
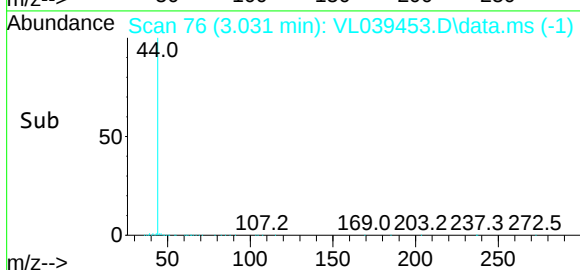
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

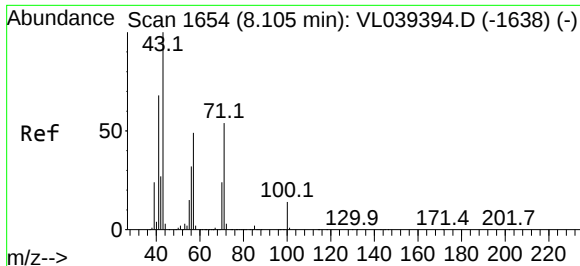


#9
Propene
Concen: 0.285 ppbv m
RT: 3.031 min Scan# 76
Delta R.T. 0.029 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02



Tgt Ion: 41 Resp: 25913
Ion Ratio Lower Upper
41 100
42 59.5 55.2 82.8





#10

Heptane

Concen: 0.111 ppbv m

RT: 8.147 min Scan# 1

Delta R.T. 0.042 min

Lab File: VL039453.D

Acq: 12 Jul 2022 18:02

Instrument :

MSVOA_L

ClientSampleId :

SG-7

Tgt Ion: 43 Resp: 23630

Ion Ratio Lower Upper

43 100

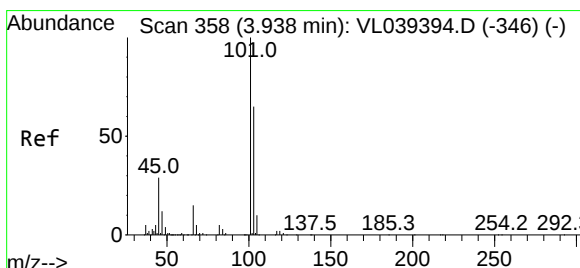
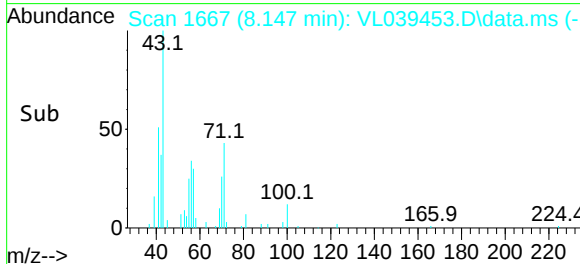
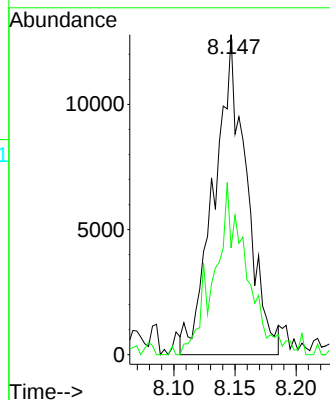
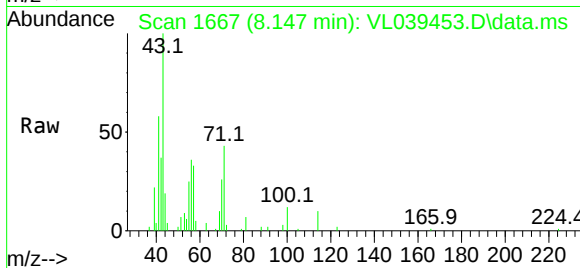
57 0.0 40.5 60.7

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 0.174 ppbv

RT: 3.967 min Scan# 367

Delta R.T. 0.029 min

Lab File: VL039453.D

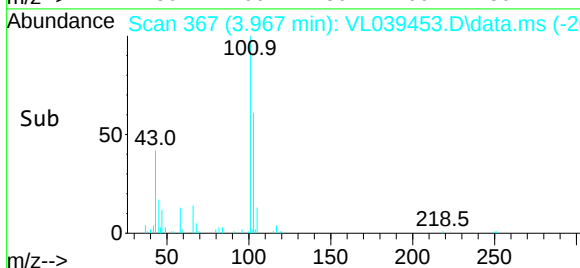
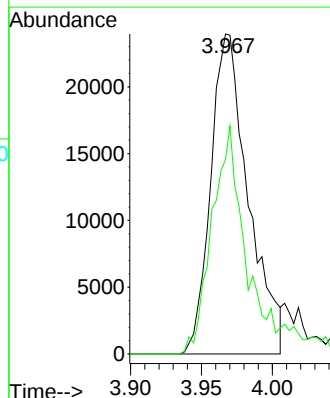
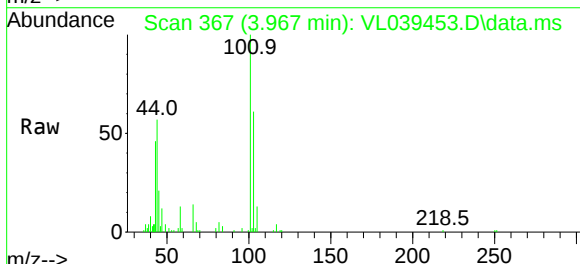
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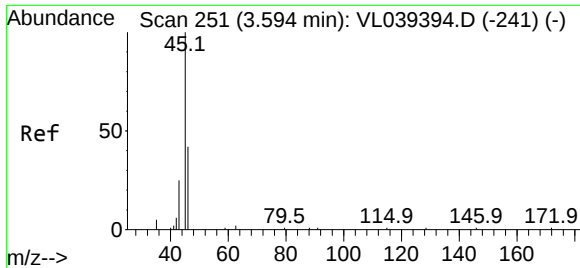
Tgt Ion:101 Resp: 44243

Ion Ratio Lower Upper

101 100

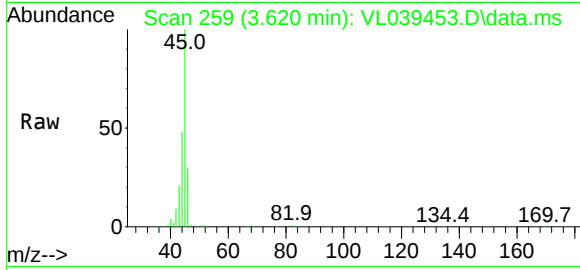
103 60.7 51.8 77.8





#13
Ethanol
Concen: 24.998 ppbv
RT: 3.620 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

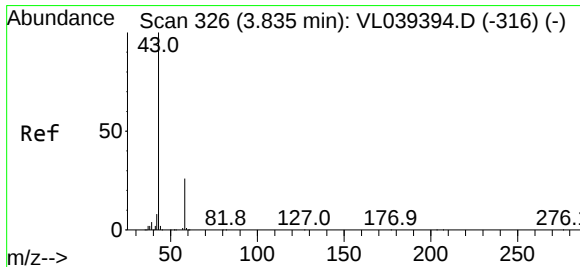
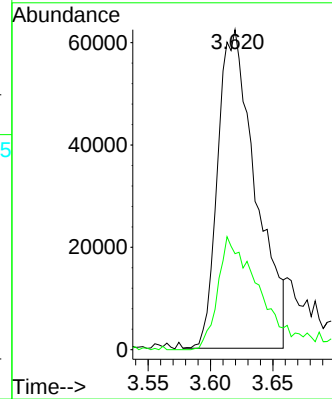
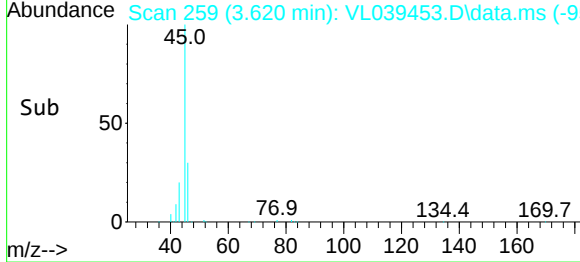
Instrument :
MSVOA_L
ClientSampleId :
SG-7



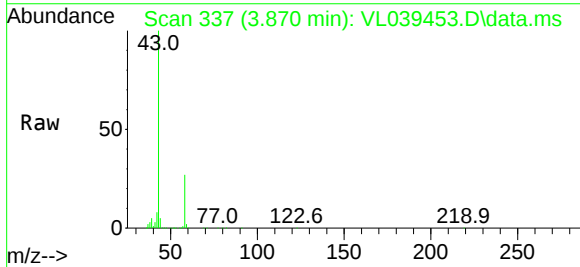
Tgt Ion: 45 Resp: 131790
Ion Ratio Lower Upper
45 100
46 43.5 22.8 91.2

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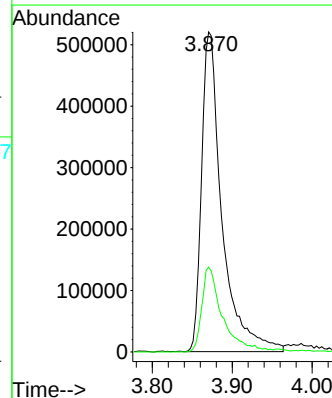
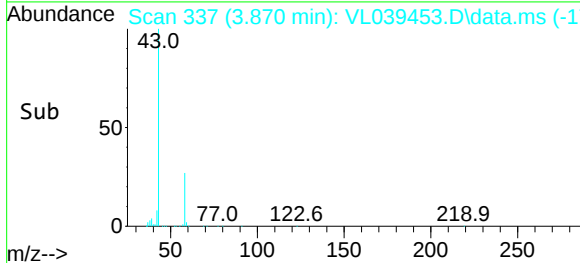
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

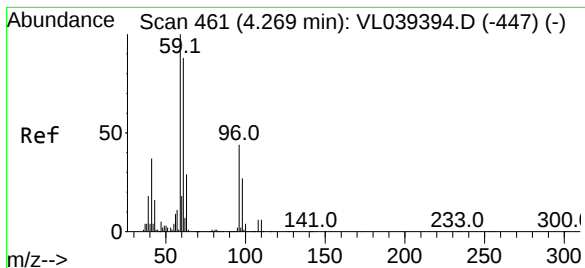


#15
Acetone
Concen: 4.929 ppbv
RT: 3.870 min Scan# 337
Delta R.T. 0.035 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02



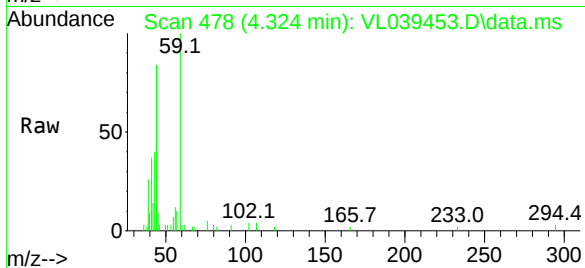
Tgt Ion: 43 Resp: 924904
Ion Ratio Lower Upper
43 100
58 27.9 21.0 31.6





#17
tert-Butyl alcohol
Concen: 0.123 ppbv
RT: 4.324 min Scan# 41
Delta R.T. 0.055 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

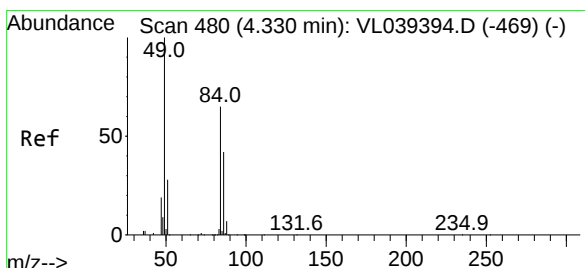
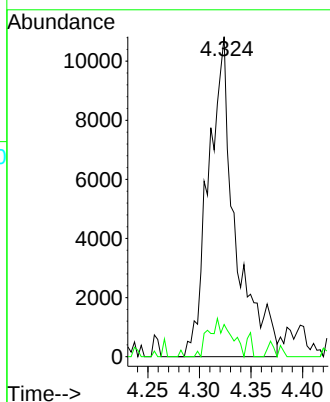
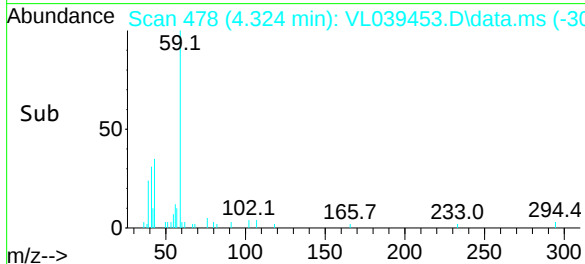
Instrument :
MSVOA_L
ClientSampleId :
SG-7



Tgt Ion: 59 Resp: 1954
Ion Ratio Lower Upper
59 100
57 11.1 8.7 13.1

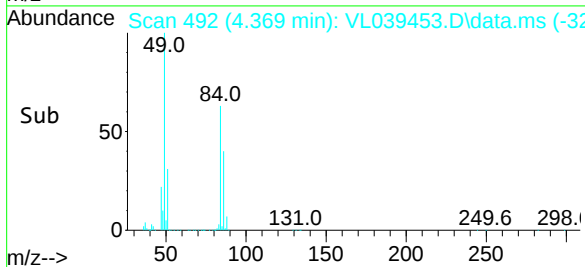
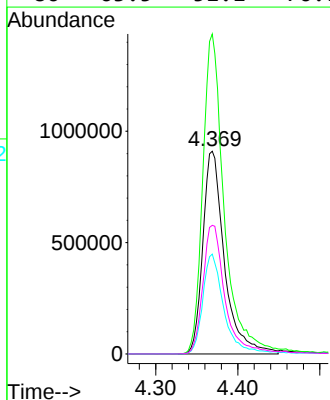
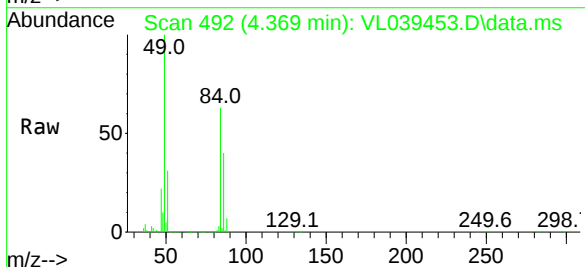
Manual Integrations
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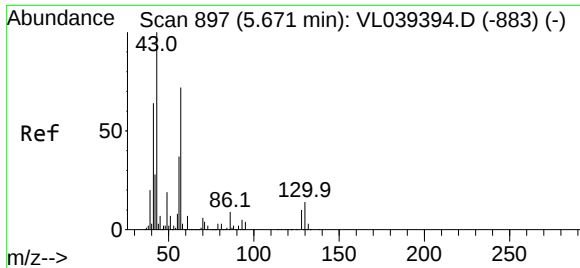
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#20
Methylene Chloride
Concen: 22.364 ppbv
RT: 4.369 min Scan# 492
Delta R.T. 0.039 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

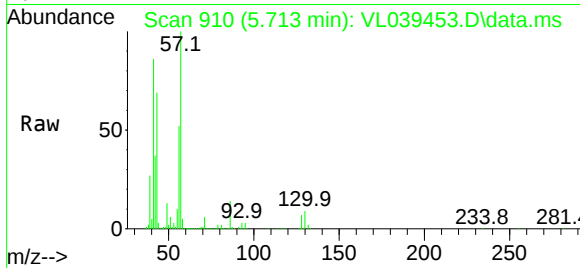
Tgt Ion: 84 Resp: 1672638
Ion Ratio Lower Upper
84 100
49 157.9 123.1 184.7
51 49.3 34.4 51.6
86 63.5 51.1 76.7





#26
Hexane
Concen: 18.288 ppbv
RT: 5.713 min Scan# 910
Delta R.T. 0.042 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

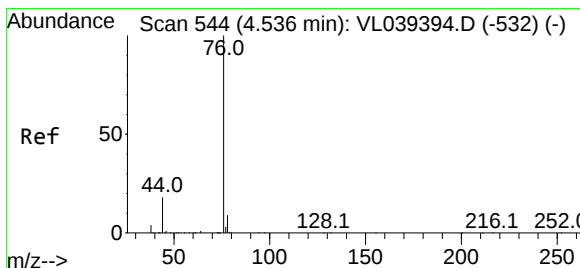
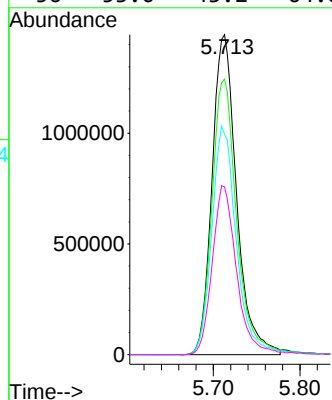
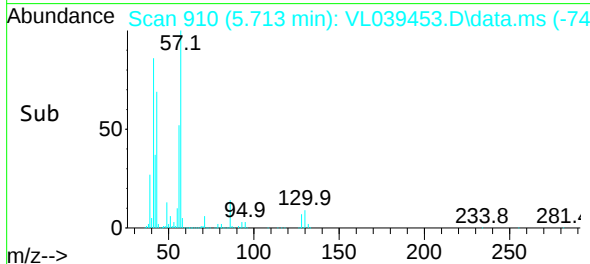
Instrument :
MSVOA_L
ClientSampleId :
SG-7



Tgt Ion: 57 Resp: 2836179
Ion Ratio Lower Upper
57 100
41 88.0 76.9 115.3
43 72.1 191.0 286.6
56 53.0 43.2 64.8

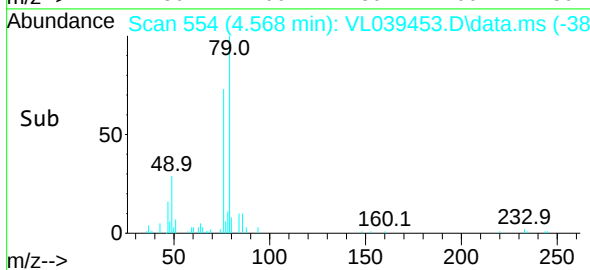
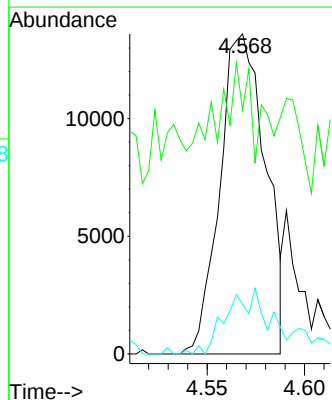
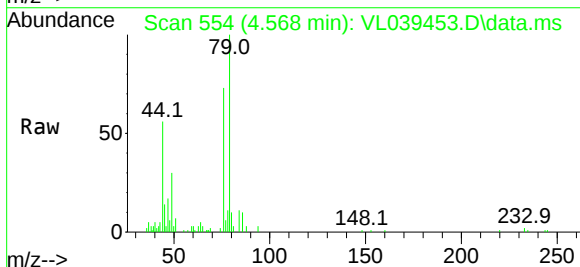
Manual Integrations
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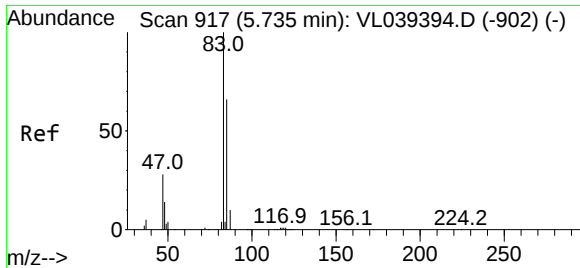
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#27
Carbon Disulfide
Concen: 0.118 ppbv
RT: 4.568 min Scan# 554
Delta R.T. 0.032 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

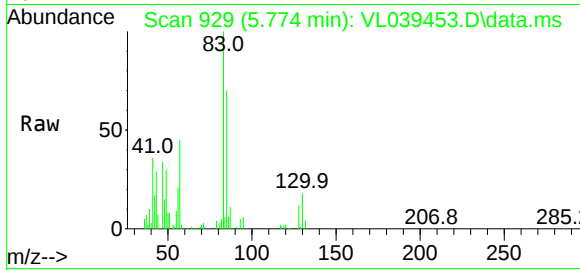
Tgt Ion: 76 Resp: 22121
Ion Ratio Lower Upper
76 100
44 28.1 14.6 21.8#
78 23.2 7.8 11.6#





#29
Chloroform
Concen: 0.458 ppbv
RT: 5.774 min Scan# 917
Delta R.T. 0.039 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

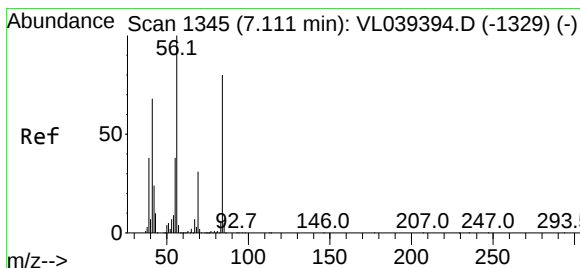
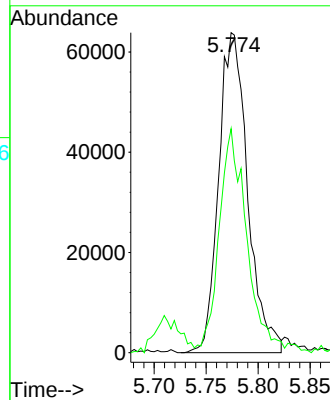
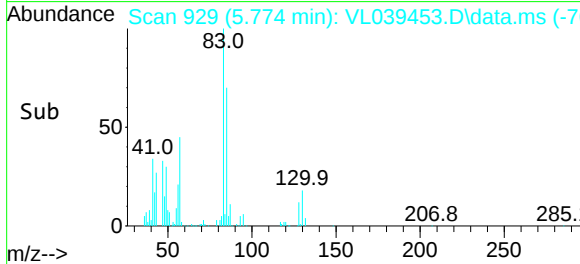
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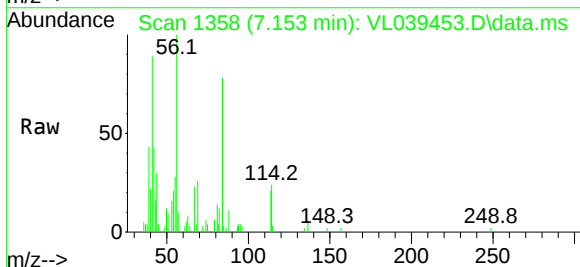
Tgt Ion: 83 Resp: 123589
Ion Ratio Lower Upper
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85 66.5 52.8 79.2

Manual Integrations
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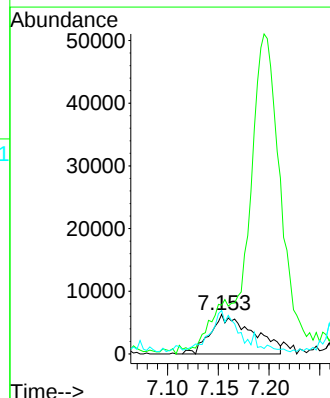
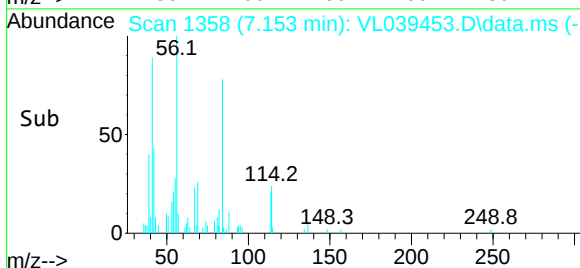
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

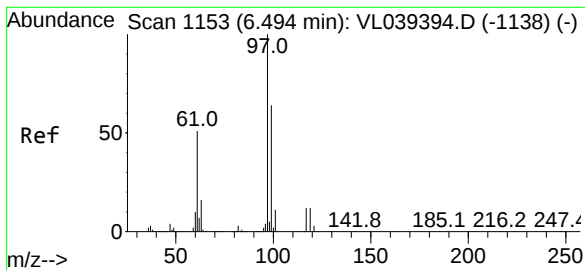


#30
Cyclohexane
Concen: 0.129 ppbv m
RT: 7.153 min Scan# 1358
Delta R.T. 0.042 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02



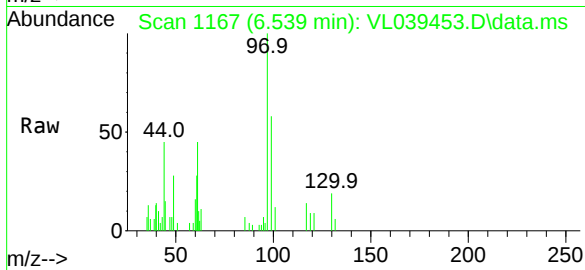
Tgt Ion: 84 Resp: 18266
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 0.0 67.7 101.5#





#32
1,1,1-Trichloroethane
Concen: 0.044 ppbv m
RT: 6.539 min Scan# 1167
Delta R.T. 0.045 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

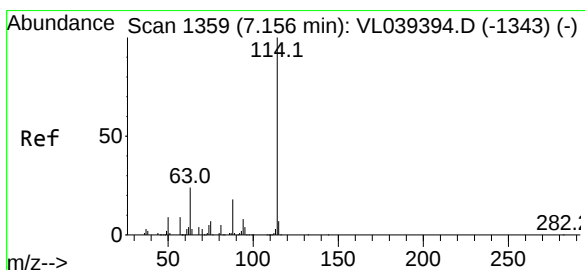
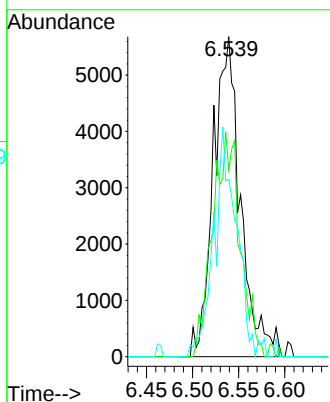
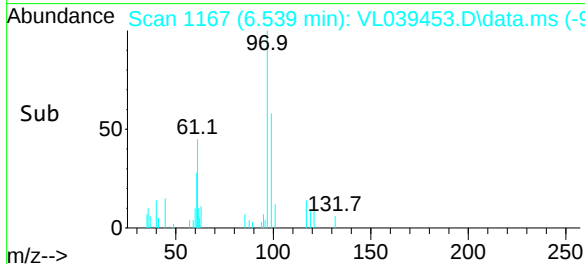
Instrument :
MSVOA_L
ClientSampleId :
SG-7



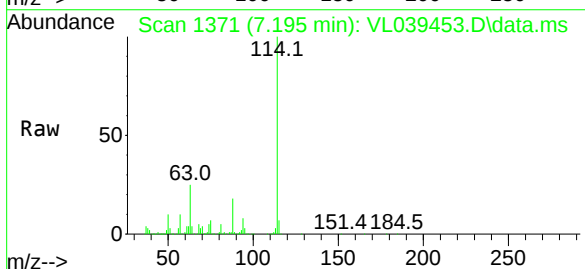
Tgt Ion: 97 Resp: 11629
Ion Ratio Lower Upper
97 100
99 71.9 52.3 78.5
61 60.8 40.9 61.3

Manual Integrations
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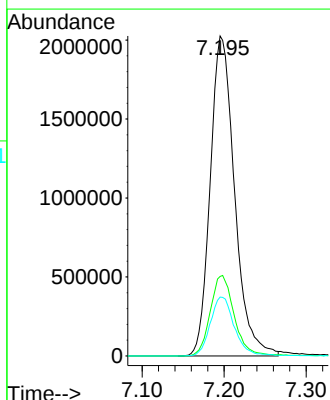
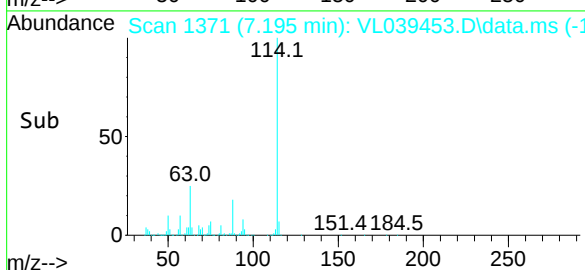
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

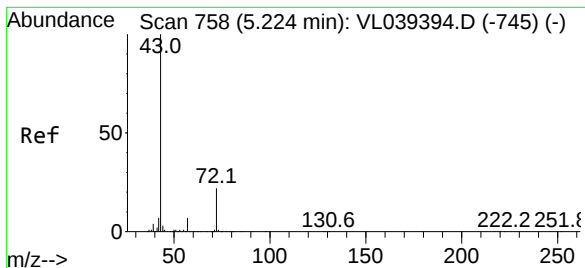


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.195 min Scan# 1371
Delta R.T. 0.039 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02



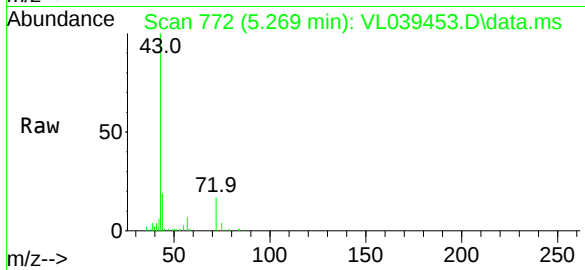
Tgt Ion:114 Resp: 4185595
Ion Ratio Lower Upper
114 100
63 25.1 20.2 30.4
88 18.5 14.5 21.7





#34
2-Butanone
Concen: 0.294 ppbv
RT: 5.269 min Scan# 71
Delta R.T. 0.045 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

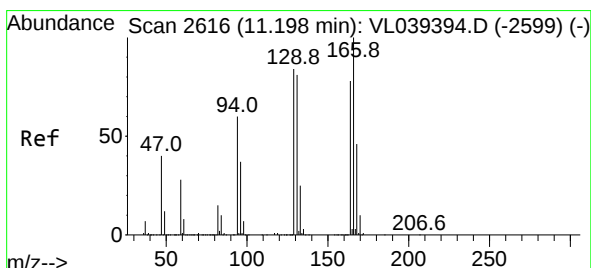
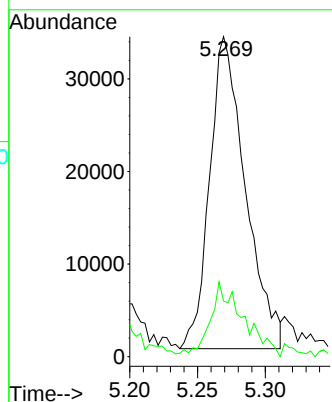
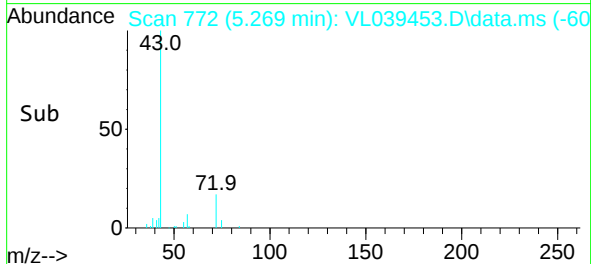
Instrument :
MSVOA_L
ClientSampleId :
SG-7



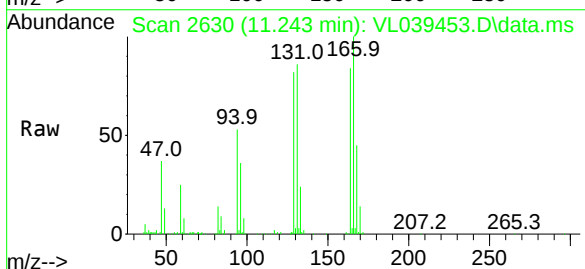
Tgt Ion: 43 Resp: 62024
Ion Ratio Lower Upper
43 100
72 23.9 17.9 26.9

Manual Integrations
APPROVED

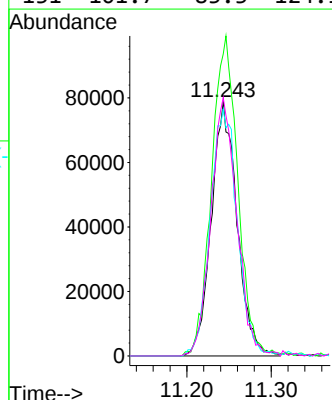
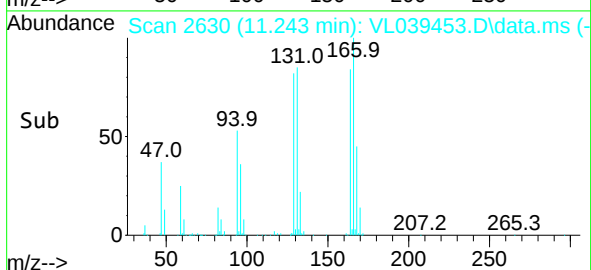
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

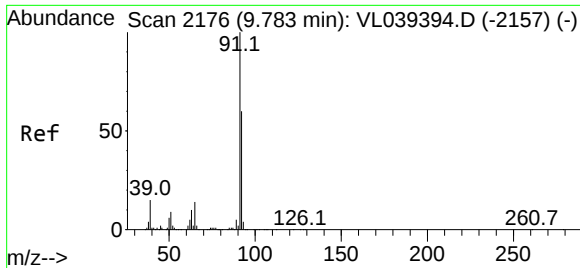


#52
Tetrachloroethene
Concen: 1.279 ppbv
RT: 11.243 min Scan# 2630
Delta R.T. 0.045 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02



Tgt Ion:164 Resp: 166839
Ion Ratio Lower Upper
164 100
166 118.8 102.2 153.2
129 97.2 85.8 128.8
131 101.7 83.3 124.9





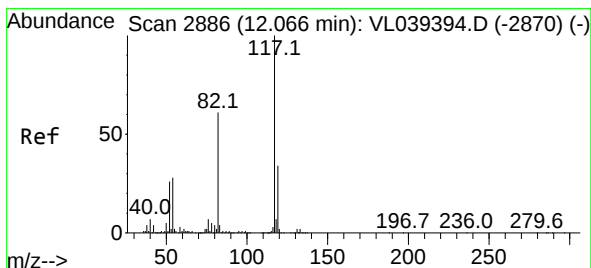
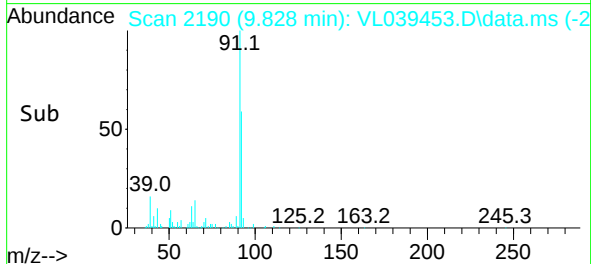
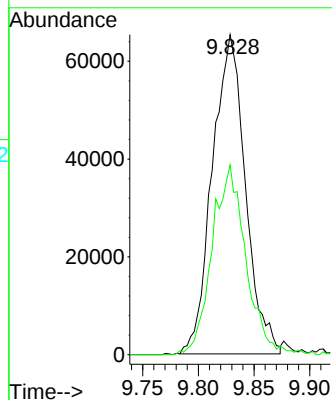
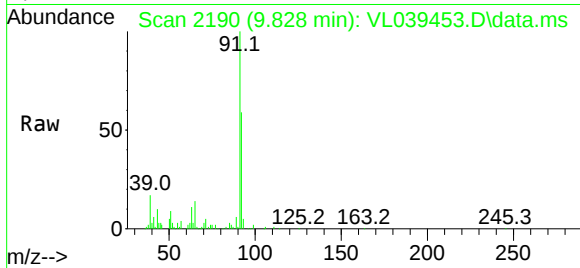
#53
Toluene
Concen: 0.362 ppbv
RT: 9.828 min Scan# 2176
Delta R.T. 0.045 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

Instrument :
MSVOA_L
ClientSampleId :
SG-7

Tgt Ion: 91 Resp: 135117
Ion Ratio Lower Upper
91 100
92 60.8 48.2 72.2

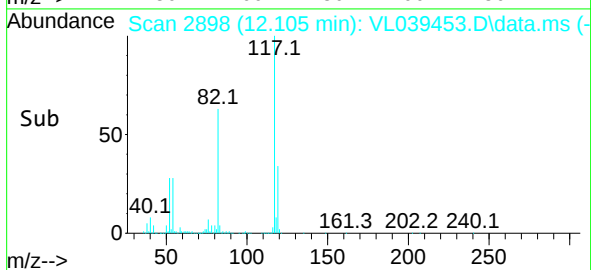
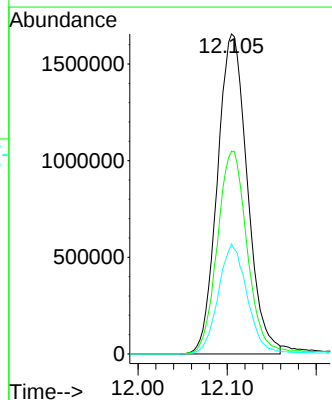
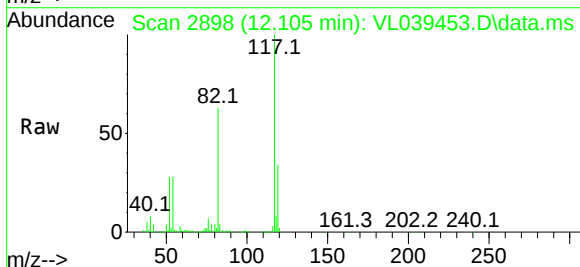
Manual Integrations
APPROVED

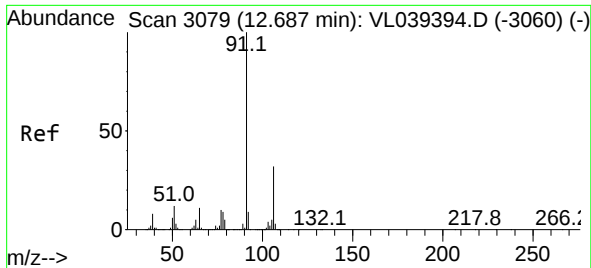
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.105 min Scan# 2898
Delta R.T. 0.039 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

Tgt Ion:117 Resp: 3852344
Ion Ratio Lower Upper
117 100
82 65.1 50.8 76.2
119 33.9 24.1 36.1





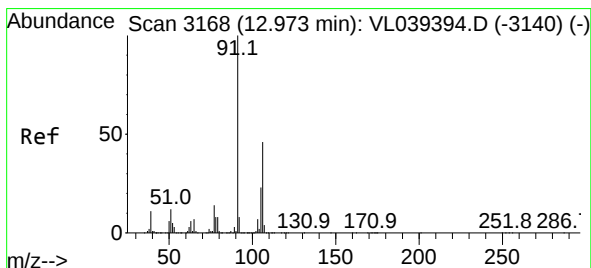
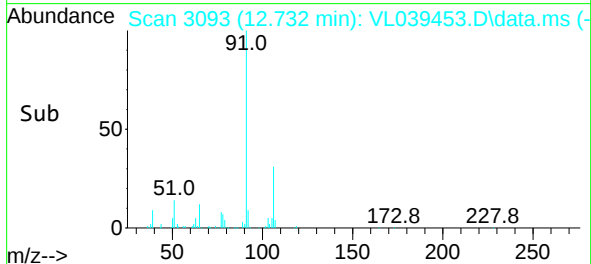
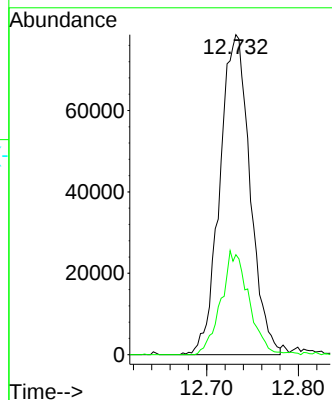
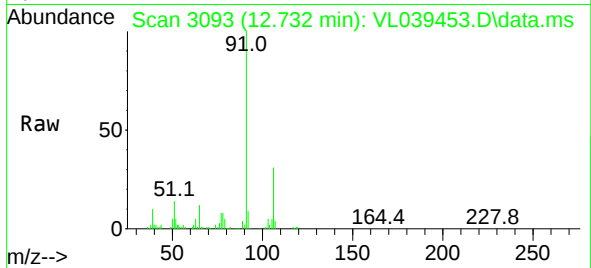
#58
Ethyl Benzene
Concen: 0.363 ppbv
RT: 12.732 min Scan# 3079
Delta R.T. 0.045 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

Instrument :
MSVOA_L
ClientSampleId :
SG-7

Tgt Ion: 91 Resp: 180688
Ion Ratio Lower Upper
91 100
106 31.2 25.4 38.0

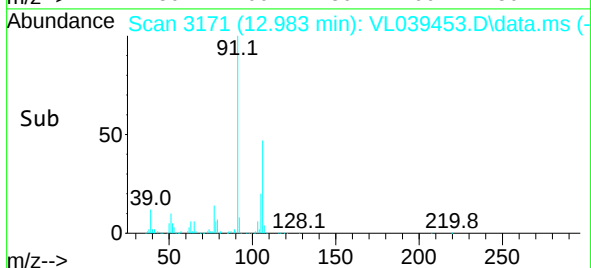
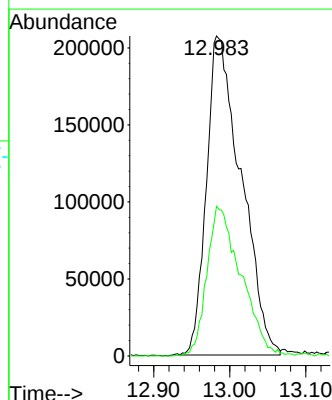
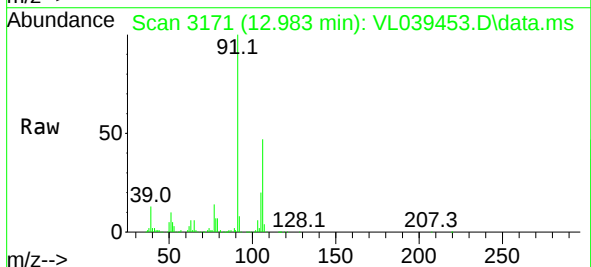
Manual Integrations
APPROVED

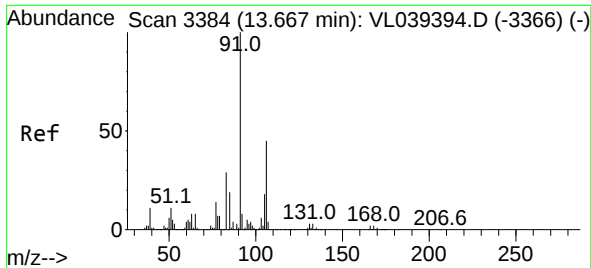
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#59
m/p-Xylene
Concen: 1.497 ppbv
RT: 12.983 min Scan# 3171
Delta R.T. 0.010 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

Tgt Ion: 91 Resp: 656475
Ion Ratio Lower Upper
91 100
106 46.6 35.4 53.2





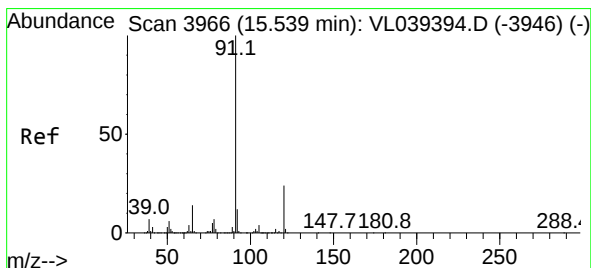
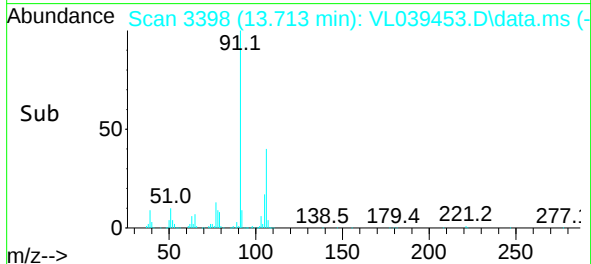
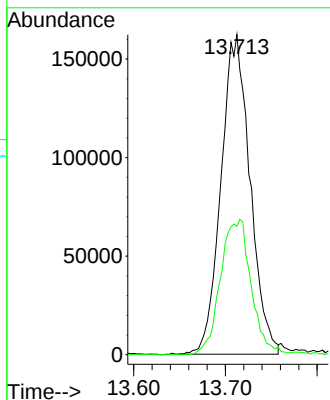
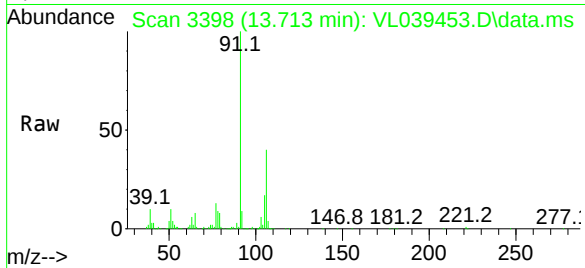
#60
o-Xylene
Concen: 0.858 ppbv
RT: 13.713 min Scan# 31
Delta R.T. 0.045 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

Instrument :
MSVOA_L
ClientSampleId :
SG-7

Tgt Ion: 91 Resp: 35621
Ion Ratio Lower Upper
91 100
106 45.2 22.4 67.3

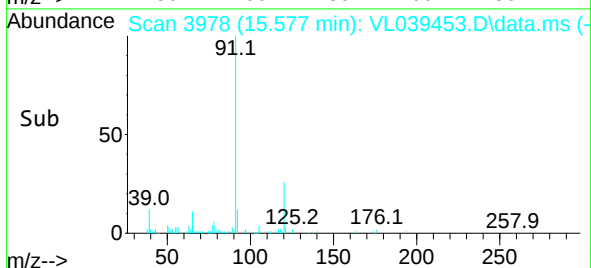
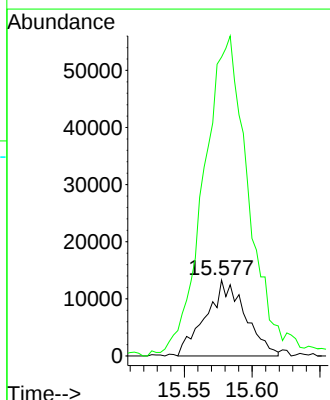
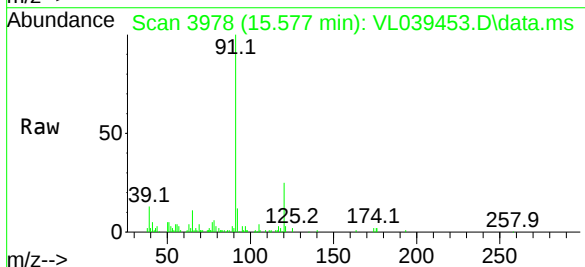
Manual Integrations
APPROVED

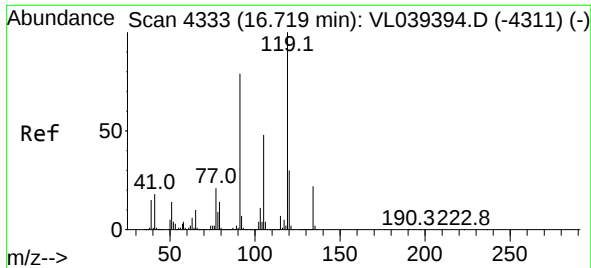
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#64
n-propylbenzene
Concen: 0.167 ppbv
RT: 15.577 min Scan# 3978
Delta R.T. 0.039 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

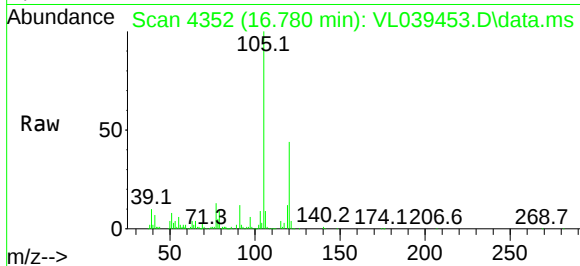
Tgt Ion:120 Resp: 26777
Ion Ratio Lower Upper
120 100
91 494.5 367.2 550.8





#65
tert-Butylbenzene
Concen: 0.128 ppbv
RT: 16.780 min Scan# 411
Delta R.T. 0.061 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

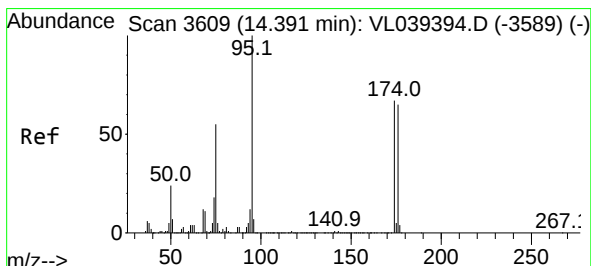
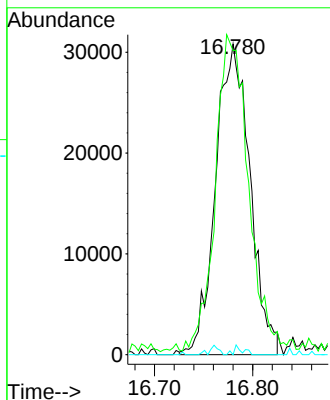
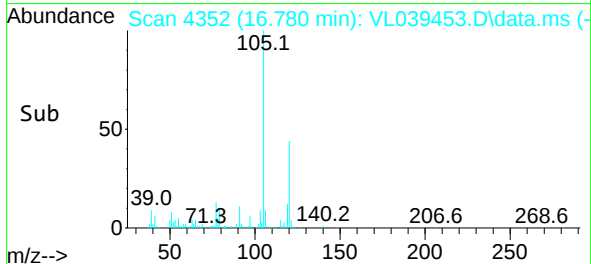
Instrument :
MSVOA_L
ClientSampleId :
SG-7



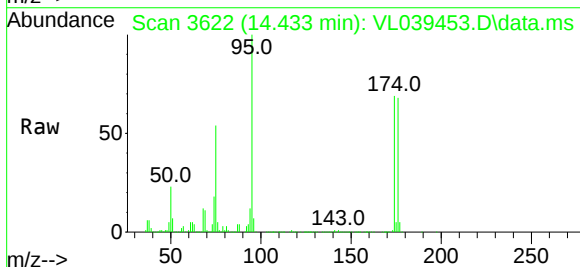
Tgt Ion: 119 Resp: 74830
Ion Ratio Lower Upper
119 100
91 99.0 63.4 95.2
134 1.6 15.9 23.9

Manual Integrations
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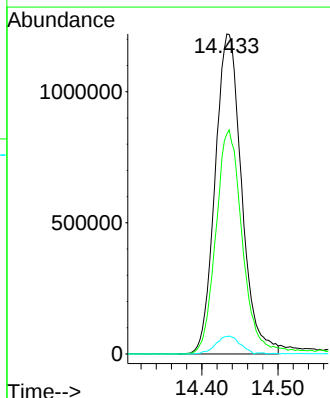
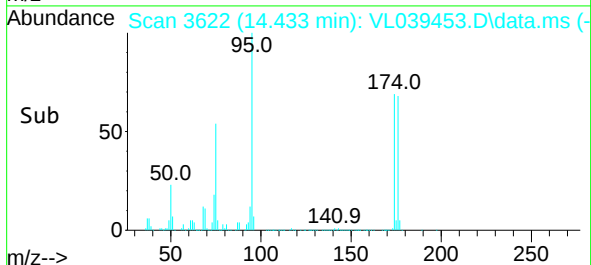
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

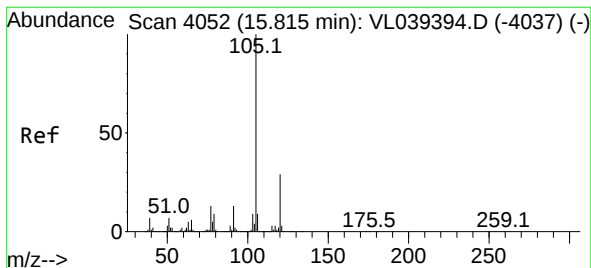


#68
1-Bromo-4-Fluorobenzene
Concen: 10.322 ppbv
RT: 14.433 min Scan# 3622
Delta R.T. 0.042 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02



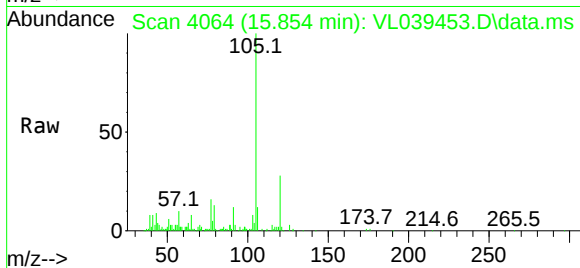
Tgt Ion: 95 Resp: 2949842
Ion Ratio Lower Upper
95 100
174 72.6 55.9 83.9
175 5.3 4.2 6.4





#72
4-Ethyltoluene
Concen: 0.341 ppbv m
RT: 15.854 min Scan# 4052
Delta R.T. 0.039 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

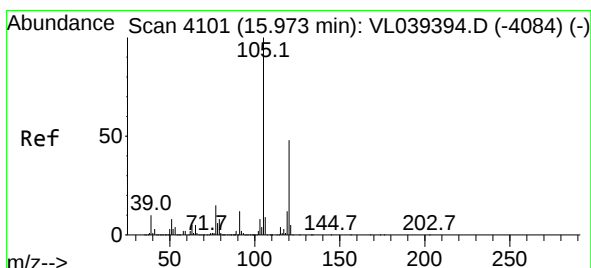
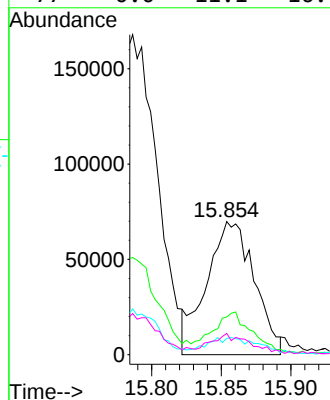
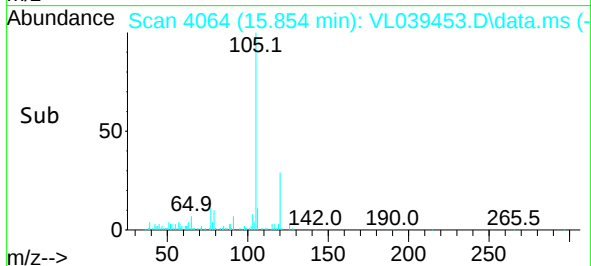
Instrument :
MSVOA_L
ClientSampleId :
SG-7



Tgt Ion:105 Resp: 16655
Ion Ratio Lower Upper
105 100
120 29.2 24.2 36.2
91 0.0 10.2 15.4
77 0.0 11.1 16.7#

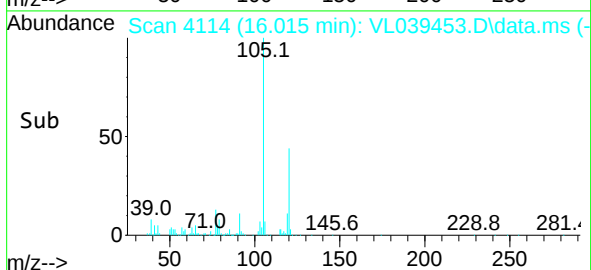
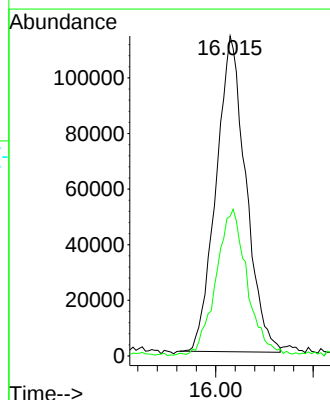
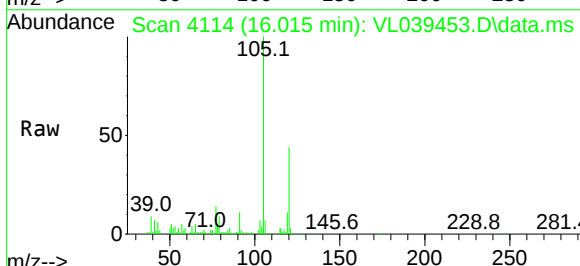
Manual Integrations
APPROVED

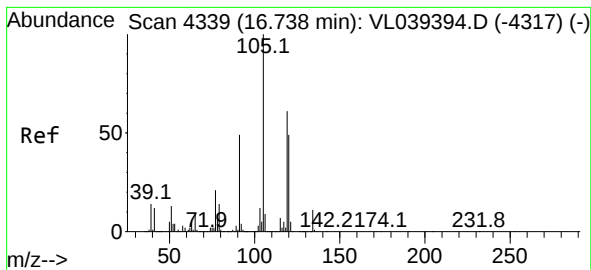
Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022



#73
1,3,5-Trimethylbenzene
Concen: 0.537 ppbv
RT: 16.015 min Scan# 4114
Delta R.T. 0.042 min
Lab File: VL039453.D
Acq: 12 Jul 2022 18:02

Tgt Ion:105 Resp: 240844
Ion Ratio Lower Upper
105 100
120 43.4 38.2 57.4





#74

1,2,4-Trimethylbenzene

Concen: 1.261 ppbv

RT: 16.780 min Scan# 41

Delta R.T. 0.042 min

Lab File: VL039453.D

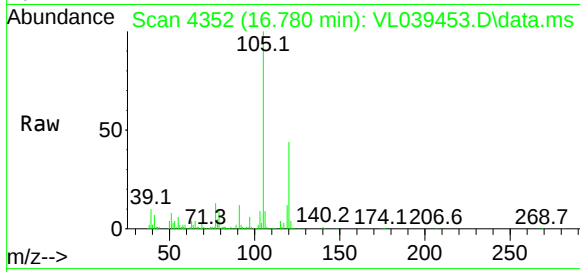
Acq: 12 Jul 2022 18:02

Instrument :

MSVOA_L

ClientSampleId :

SG-7



Tgt Ion:	105	Resp:	62541
Ion	Ratio	Lower	Upper
105	100		
120	43.3	39.5	59.3
91	11.4	39.2	58.8
77	12.9	17.2	25.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/13/2022
Supervised By :Mahesh Dadoda 07/13/2022

