

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL040000.D
 Acq On : 13 Dec 2022 6:49
 Operator : SY/MD
 Sample : N5969-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/14/2022
 Supervised By : Mahesh Dadoda 12/14/2022

Quant Time: Dec 13 07:58:34 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 12 2022

QLast Update : Fri Dec 02 23:21:36 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.173	49	852624	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.632	114	2476204	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.449	117	2271040	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	1825586	10.524	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	23319	0.191	ppbv #	80
3) Chlorodifluoromethane	2.655	51	11221	0.095	ppbv #	85
4) Chloromethane	2.790	50	17135	0.228	ppbv	94
7) Chloroethane	3.179	64	13151	0.566	ppbv #	83
11) Trichlorofluoromethane	3.546	101	47859	0.321	ppbv #	79
13) Ethanol	3.221	45	114614	27.087	ppbv	94
15) Acetone	3.443	43	4055292	35.859	ppbv	95
17) tert-Butyl alcohol	3.870	59	100535m	0.773	ppbv	
19) Isopropyl Alcohol	3.562	45	101826	1.663	ppbv #	29
20) Methylene Chloride	3.912	84	477344	8.712	ppbv	98
26) Hexane	5.195	57	353117	3.893	ppbv #	38
29) Chloroform	5.253	83	28787	0.239	ppbv	99
30) Cyclohexane	6.584	84	14366m	0.161	ppbv	
34) 2-Butanone	4.767	43	674855	5.696	ppbv	98
36) Benzene	6.349	78	185962	0.884	ppbv	93
38) Trichloroethene	7.275	130	11940m	0.101	ppbv	
52) Tetrachloroethene	10.600	164	3486301	44.277	ppbv	97
53) Toluene	9.201	91	172340	0.719	ppbv	99
58) Ethyl Benzene	12.069	91	43616m	0.142	ppbv	
59) m/p-Xylene	12.327	91	120542m	0.467	ppbv	
60) o-Xylene	13.047	91	44609m	0.181	ppbv	
74) 1,2,4-Trimethylbenzene	16.092	105	49908	0.186	ppbv #	63
79) Naphthalene	21.368	128	45763m	0.285	ppbv	

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

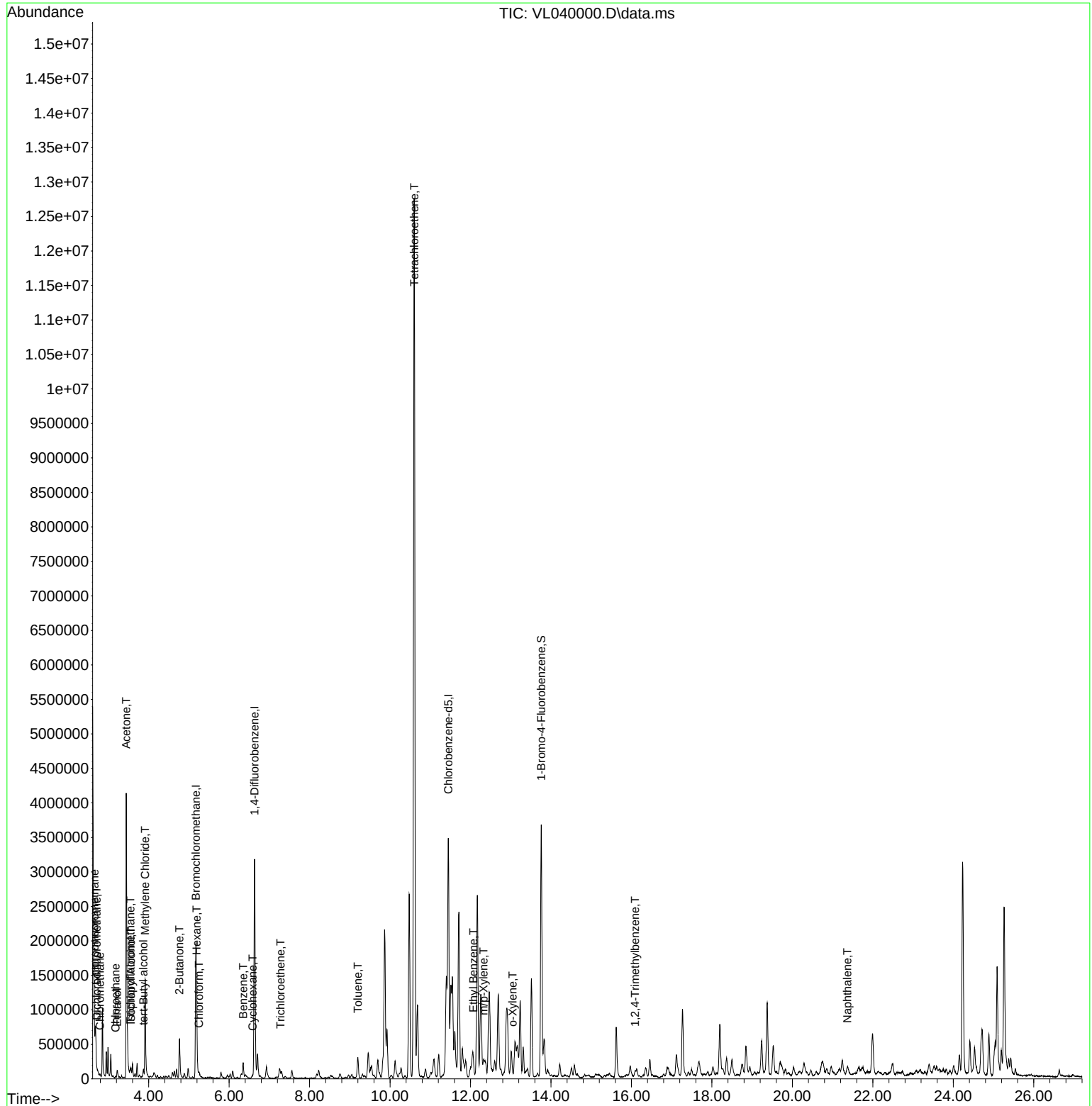
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
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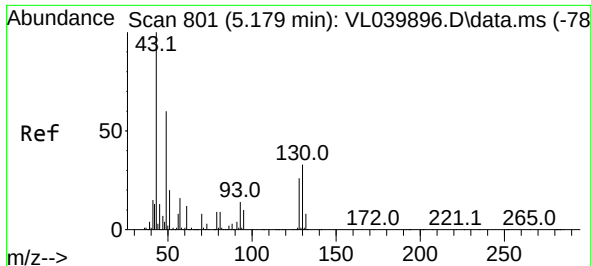
Instrument :
MSVOA_L
ClientSampleId :
SG-3

Quant Time: Dec 13 07:58:34 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Dec 02 23:21:36 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

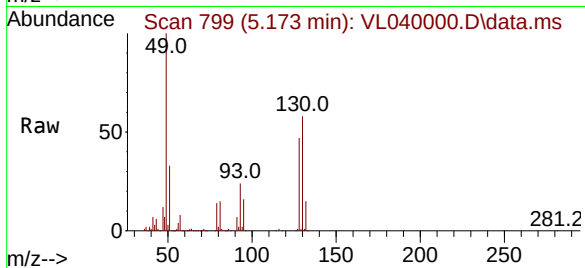
Reviewed By : Semsettin Yesilyurt 12/14/2022
Supervised By : Mahesh Dadoda 12/14/2022





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.173 min Scan# 79
Delta R.T. 0.017 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

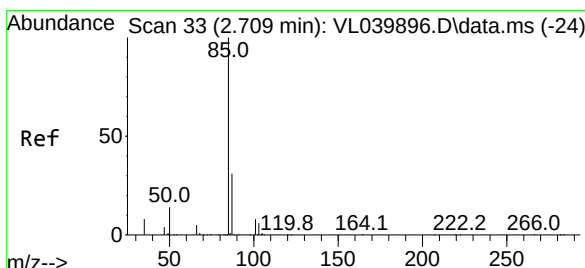
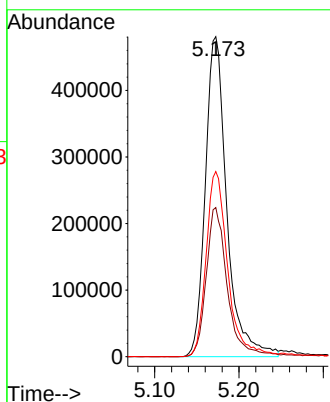
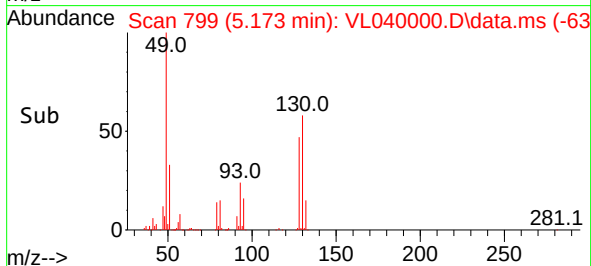
Instrument :
MSVOA_L
ClientSampleId :
SG-3



Tgt Ion: 49 Resp: 852624
Ion Ratio Lower Upper
49 100
128 46.5 22.1 66.3
130 60.1 27.7 83.1

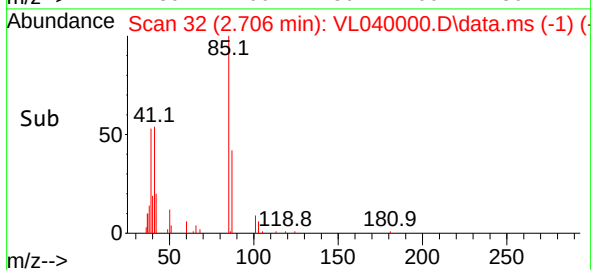
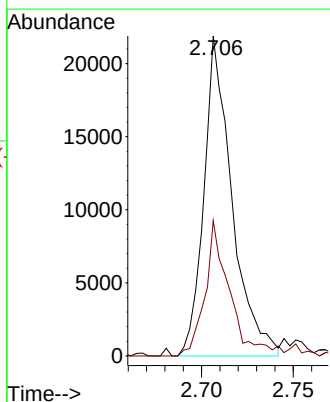
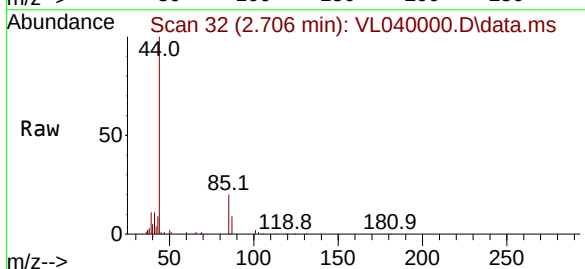
Manual Integrations
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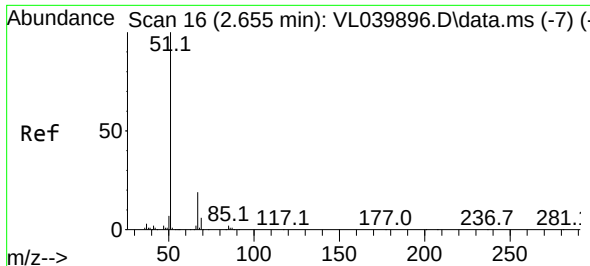
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#2
Dichlorodifluoromethane
Concen: 0.191 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.010 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

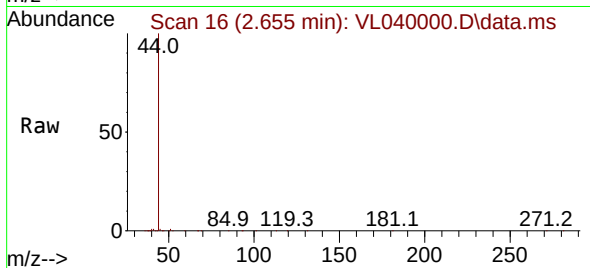
Tgt Ion: 85 Resp: 23319
Ion Ratio Lower Upper
85 100
87 42.2 25.0 37.4





#3
Chlorodifluoromethane
Concen: 0.095 ppbv
RT: 2.655 min Scan# 1122
Delta R.T. 0.013 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

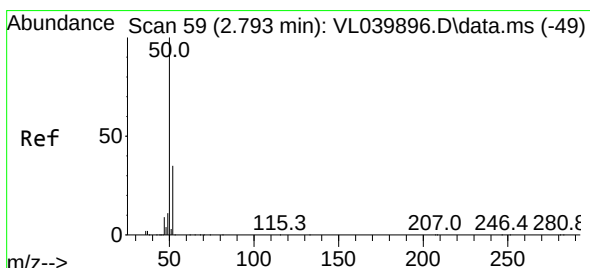
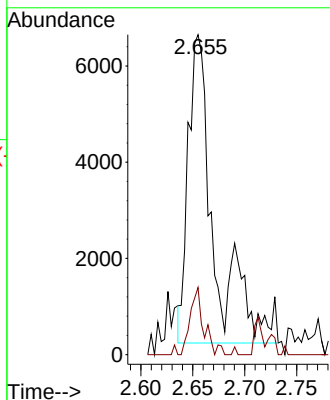
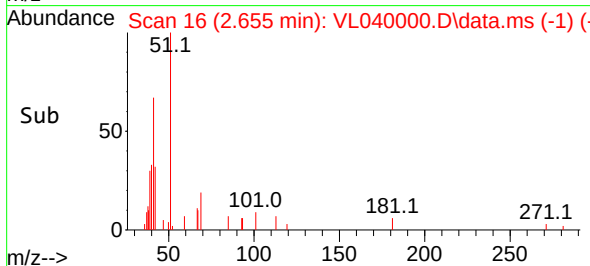
Instrument :
MSVOA_L
ClientSampleId :
SG-3



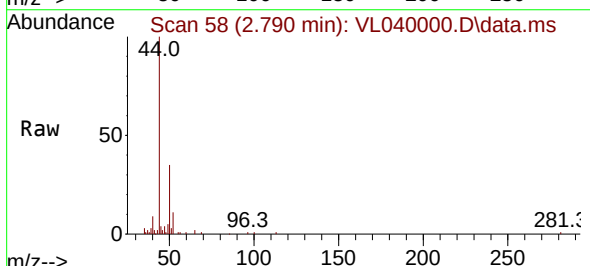
Tgt Ion: 51 Resp: 1122
Ion Ratio Lower Upper
51 100
67 11.3 14.2 21.4

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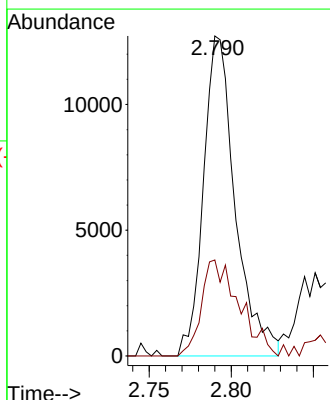
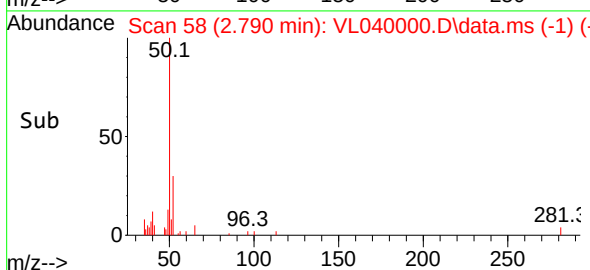
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

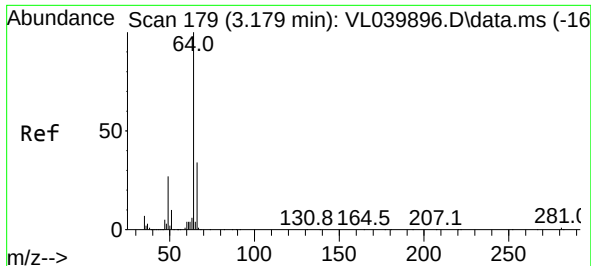


#4
Chloromethane
Concen: 0.228 ppbv
RT: 2.790 min Scan# 58
Delta R.T. 0.010 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49



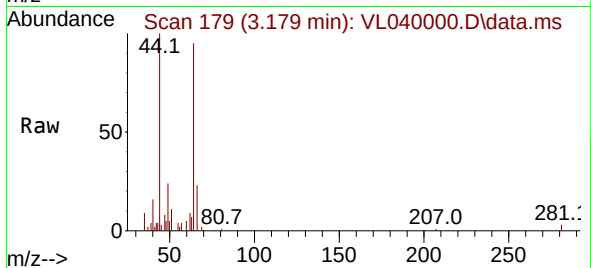
Tgt Ion: 50 Resp: 17135
Ion Ratio Lower Upper
50 100
52 31.0 27.8 41.8





#7
Chloroethane
Concen: 0.566 ppbv
RT: 3.179 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

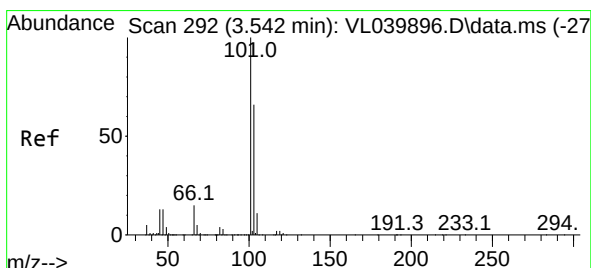
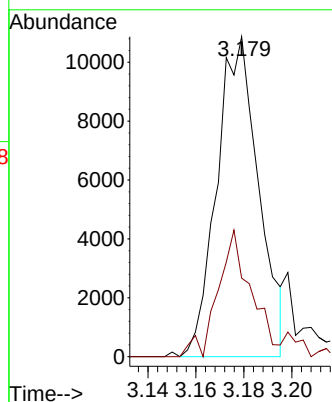
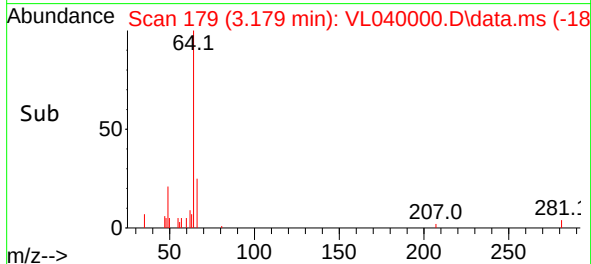
Instrument :
MSVOA_L
ClientSampleId :
SG-3



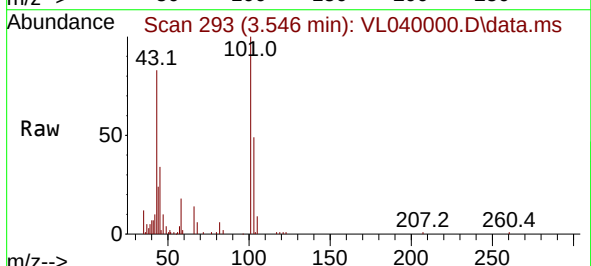
Tgt Ion: 64 Resp: 1315
Ion Ratio Lower Upper
64 100
66 24.5 27.3 40.9

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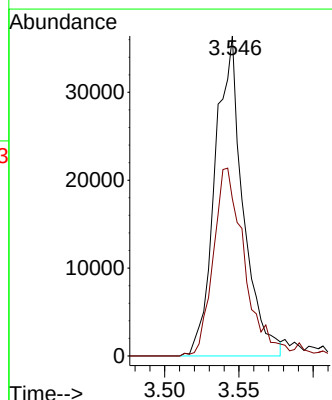
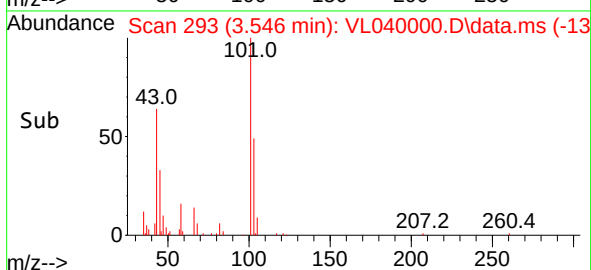
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

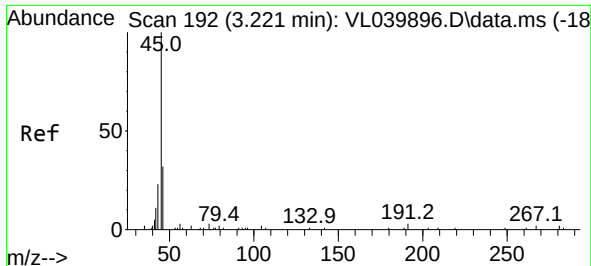


#11
Trichlorofluoromethane
Concen: 0.321 ppbv
RT: 3.546 min Scan# 293
Delta R.T. 0.016 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49



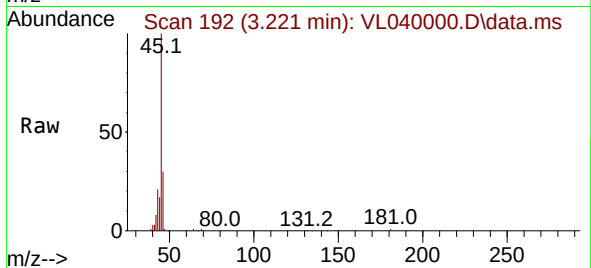
Tgt Ion:101 Resp: 47859
Ion Ratio Lower Upper
101 100
103 49.1 52.6 78.8





#13
Ethanol
Concen: 27.087 ppbv
RT: 3.221 min Scan# 192
Delta R.T. 0.007 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

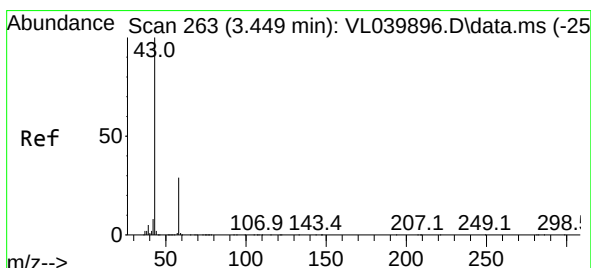
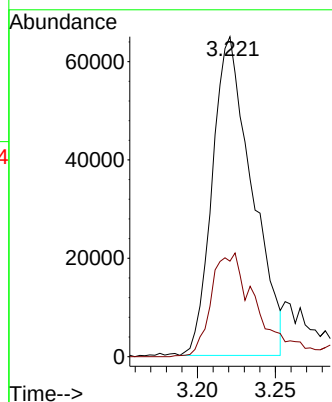
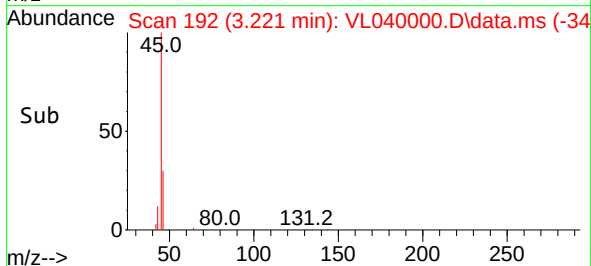
Instrument :
MSVOA_L
ClientSampleId :
SG-3



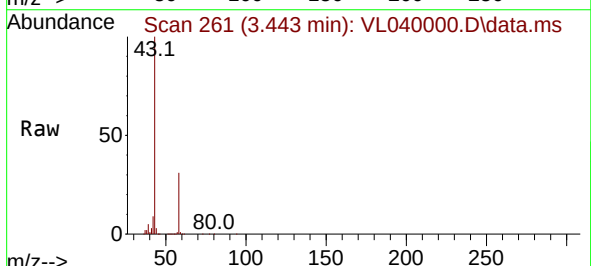
Tgt Ion: 45 Resp: 114614
Ion Ratio Lower Upper
45 100
46 39.7 14.6 58.2

Manual Integrations
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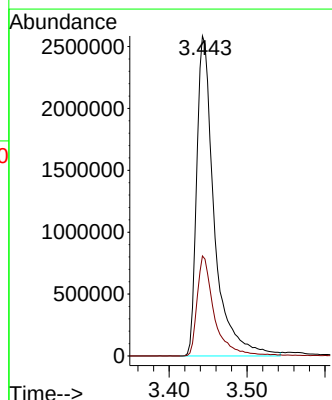
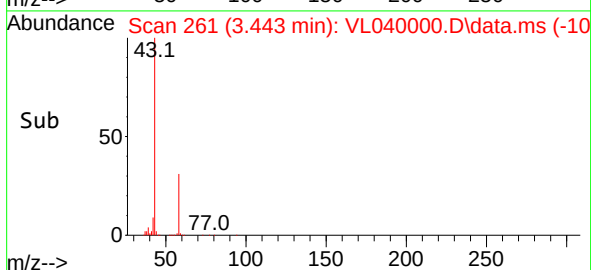
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

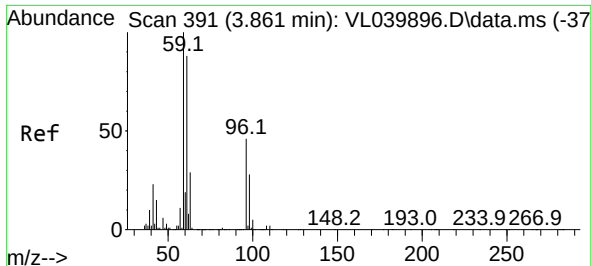


#15
Acetone
Concen: 35.859 ppbv
RT: 3.443 min Scan# 261
Delta R.T. 0.010 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49



Tgt Ion: 43 Resp: 4055292
Ion Ratio Lower Upper
43 100
58 31.1 22.9 34.3





#17

tert-Butyl alcohol

Concen: 0.773 ppbv m

RT: 3.870 min Scan# 391

Delta R.T. 0.026 min

Lab File: VL040000.D

Acq: 13 Dec 2022 6:49

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tgt Ion: 59 Resp: 10053

Ion Ratio Lower Upper

59 100

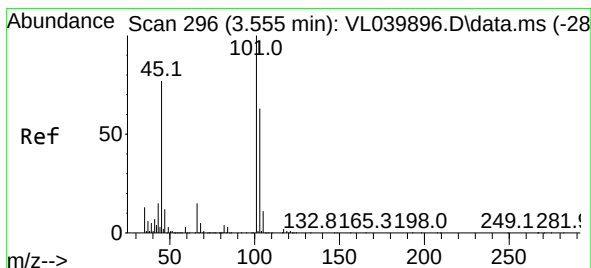
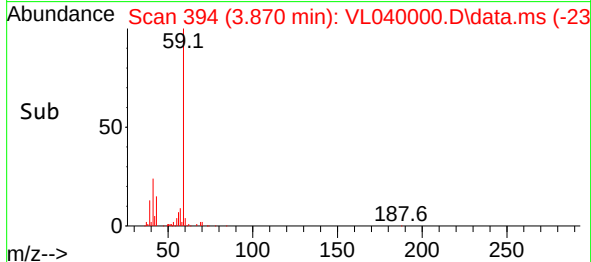
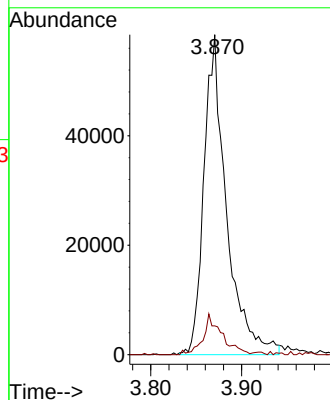
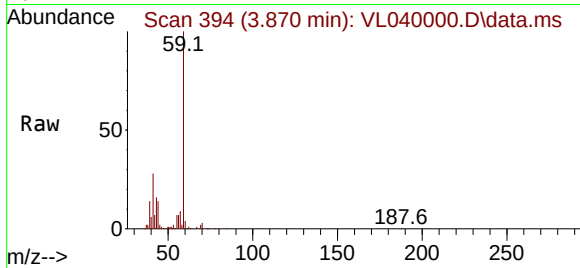
57 0.0 8.3 12.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/14/2022

Supervised By :Mahesh Dadoda 12/14/2022



#19

Isopropyl Alcohol

Concen: 1.663 ppbv

RT: 3.562 min Scan# 298

Delta R.T. 0.019 min

Lab File: VL040000.D

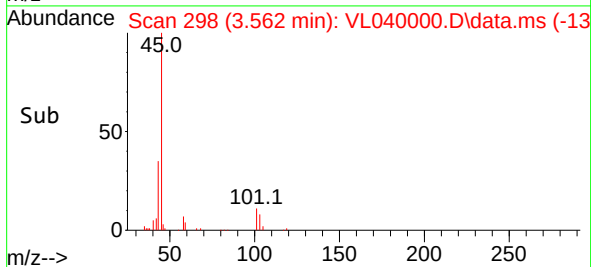
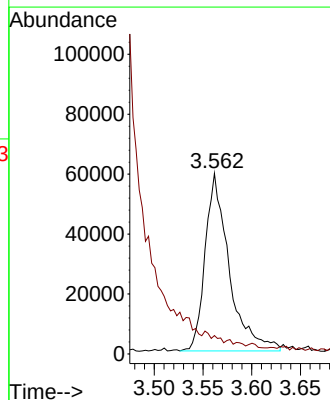
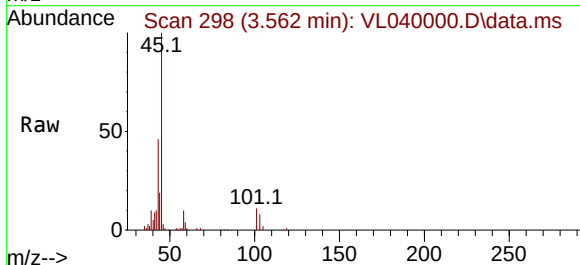
Acq: 13 Dec 2022 6:49

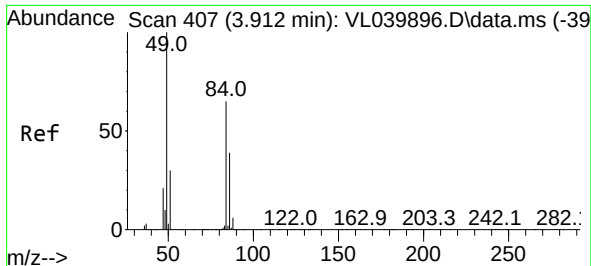
Tgt Ion: 45 Resp: 101826

Ion Ratio Lower Upper

45 100

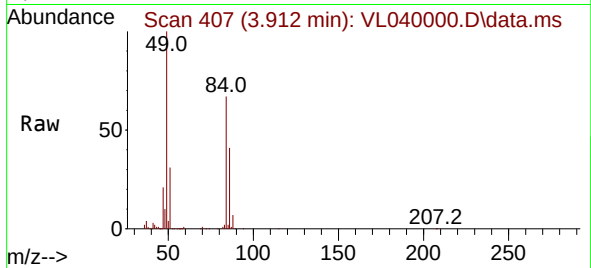
58 0.0 38.7 58.1





#20
Methylene Chloride
Concen: 8.712 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.016 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

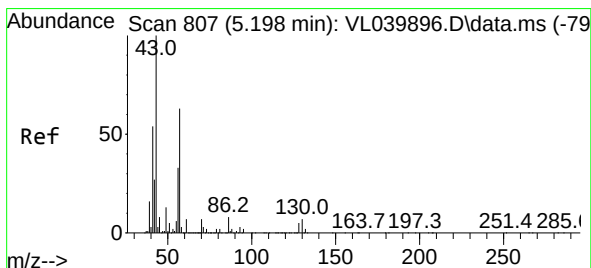
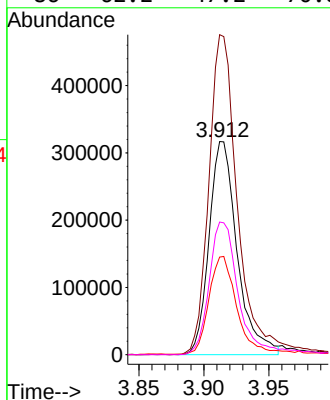
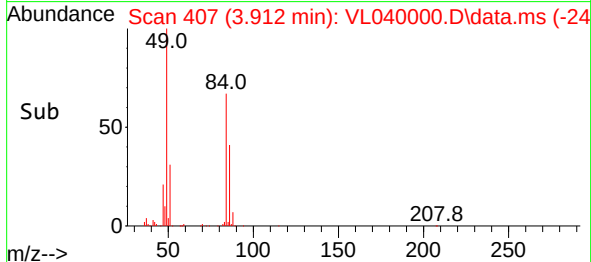
Instrument :
MSVOA_L
ClientSampleId :
SG-3



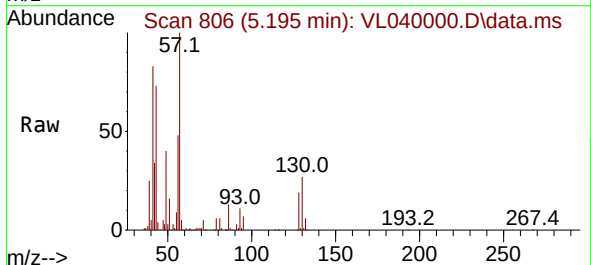
Tgt Ion: 84 Resp: 477344
Ion Ratio Lower Upper
84 100
49 150.0 122.2 183.4
51 45.6 36.3 54.5
86 62.2 47.2 70.8

Manual Integrations
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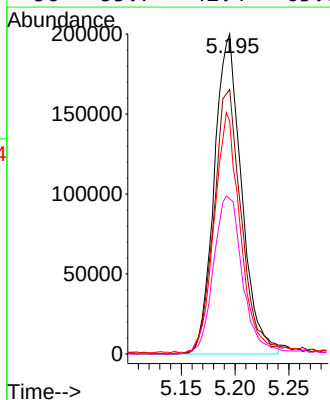
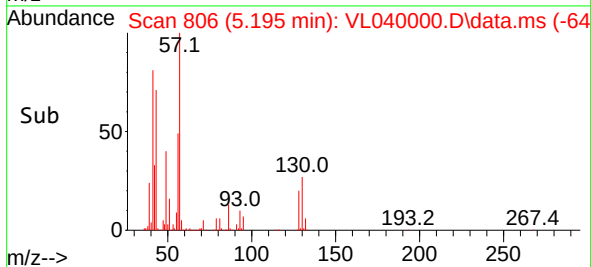
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

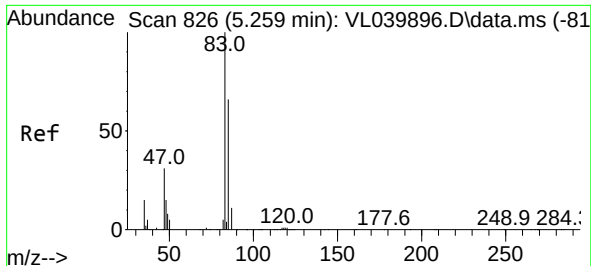


#26
Hexane
Concen: 3.893 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.019 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49



Tgt Ion: 57 Resp: 353117
Ion Ratio Lower Upper
57 100
41 85.3 72.3 108.5
43 73.0 188.7 283.1#
56 53.7 42.4 63.6





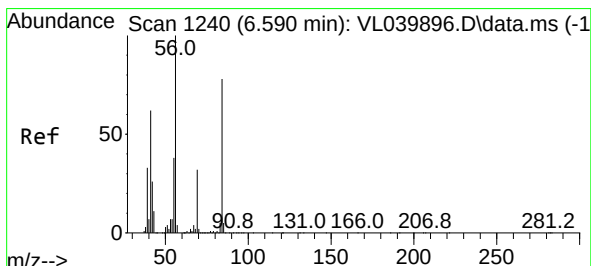
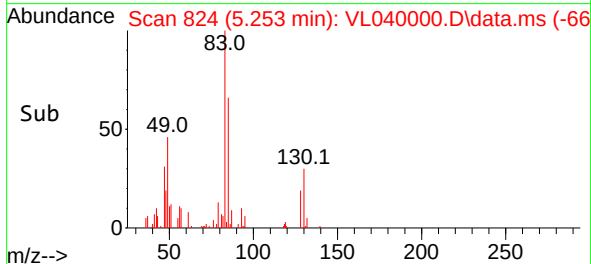
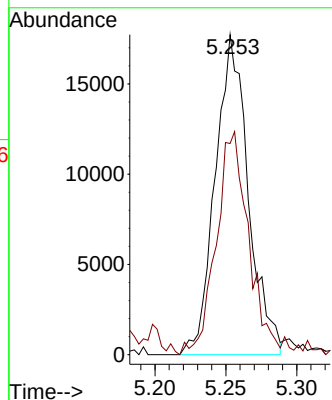
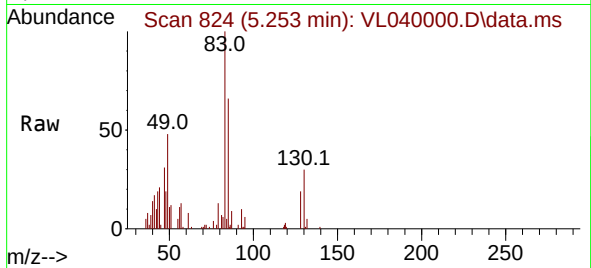
#29
Chloroform
Concen: 0.239 ppbv
RT: 5.253 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

Instrument :
MSVOA_L
ClientSampleId :
SG-3

Tgt Ion: 83 Resp: 2878
Ion Ratio Lower Upper
83 100
85 66.0 52.4 78.6

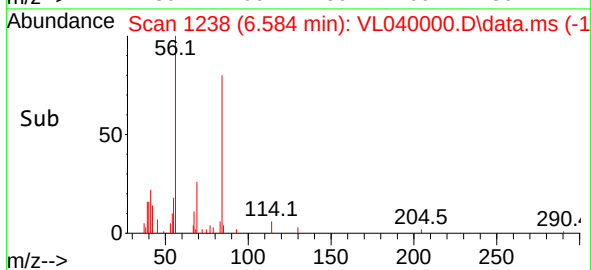
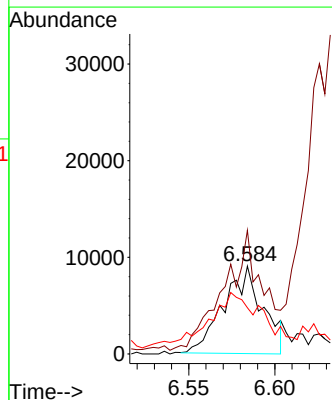
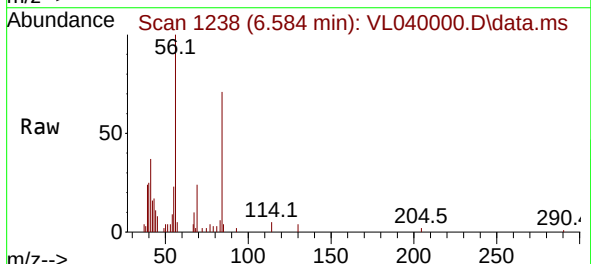
Manual Integrations
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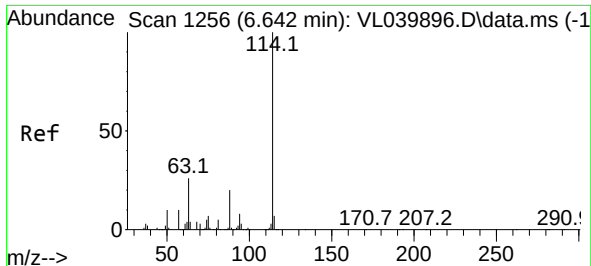
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#30
Cyclohexane
Concen: 0.161 ppbv m
RT: 6.584 min Scan# 1238
Delta R.T. 0.019 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

Tgt Ion: 84 Resp: 14366
Ion Ratio Lower Upper
84 100
56 0.0 112.5 168.7#
41 0.0 67.8 101.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 114

Delta R.T. 0.013 min

Lab File: VL040000.D

Acq: 13 Dec 2022 6:49

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tgt Ion:114 Resp: 2476204

Ion Ratio Lower Upper

114 100

63 25.0 21.4 32.0

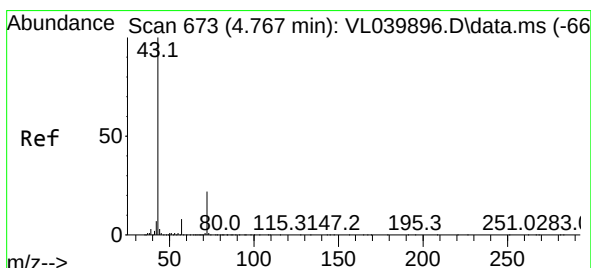
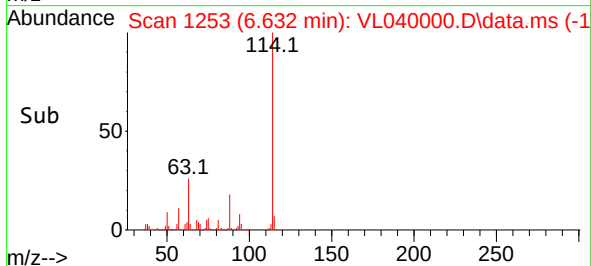
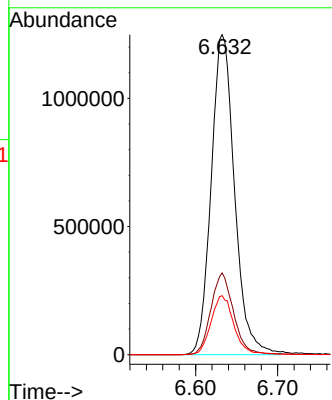
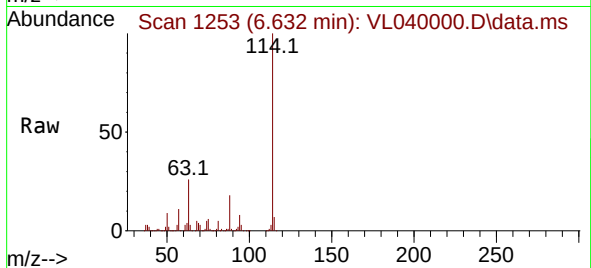
88 18.2 15.3 22.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/14/2022

Supervised By :Mahesh Dadoda 12/14/2022



#34

2-Butanone

Concen: 5.696 ppbv

RT: 4.767 min Scan# 673

Delta R.T. 0.016 min

Lab File: VL040000.D

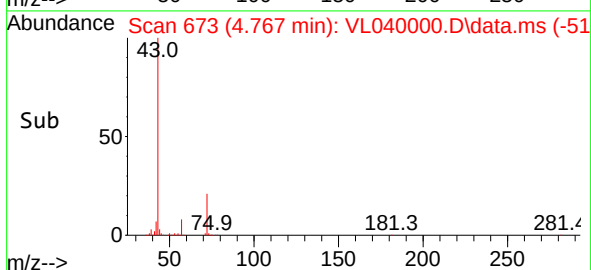
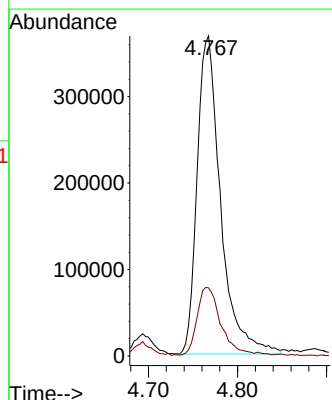
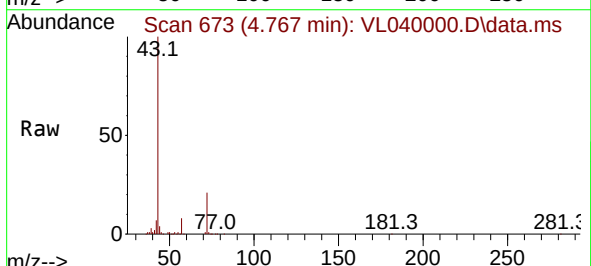
Acq: 13 Dec 2022 6:49

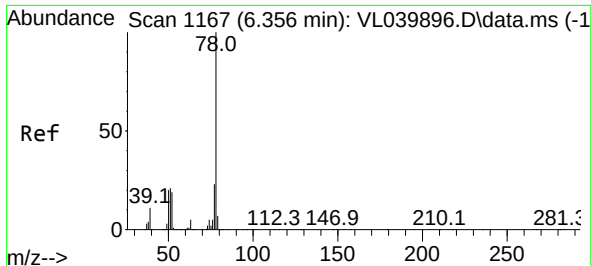
Tgt Ion: 43 Resp: 674855

Ion Ratio Lower Upper

43 100

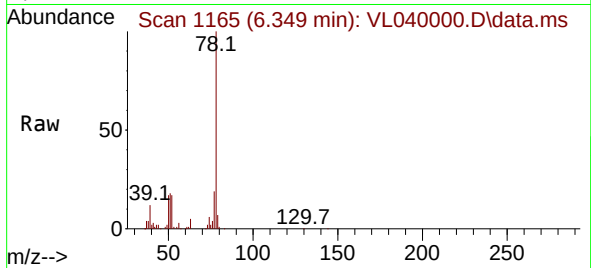
72 22.7 17.4 26.2





#36
Benzene
Concen: 0.884 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.016 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

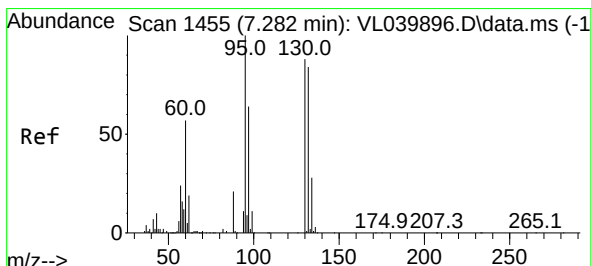
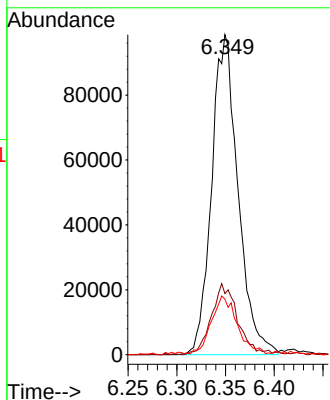
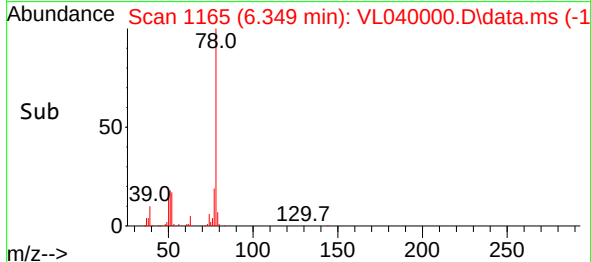
Instrument :
MSVOA_L
ClientSampleId :
SG-3



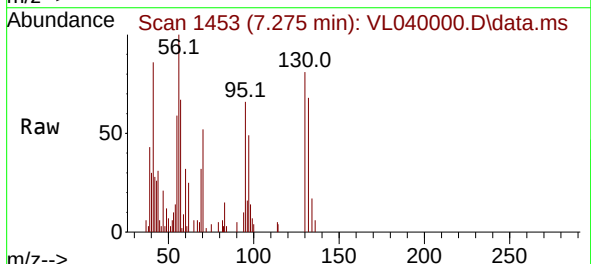
Tgt Ion: 78 Resp: 185962
Ion Ratio Lower Upper
78 100
77 18.9 18.2 27.2
50 16.6 15.8 23.8

Manual Integrations
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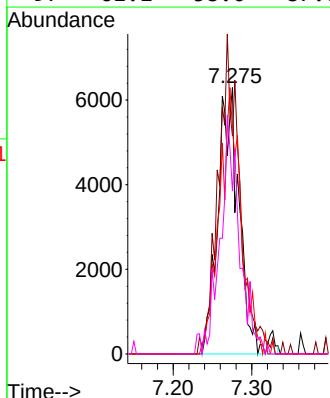
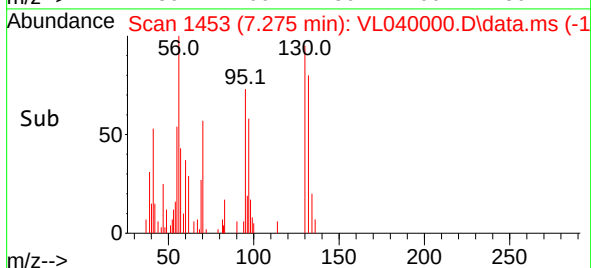
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

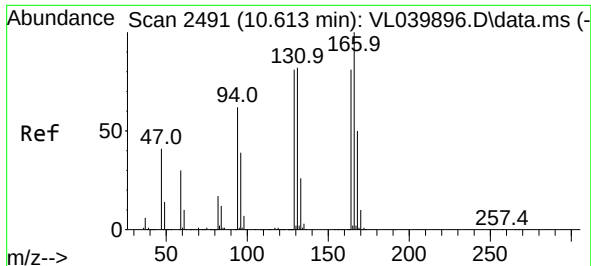


#38
Trichloroethene
Concen: 0.101 ppbv m
RT: 7.275 min Scan# 1453
Delta R.T. 0.019 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49



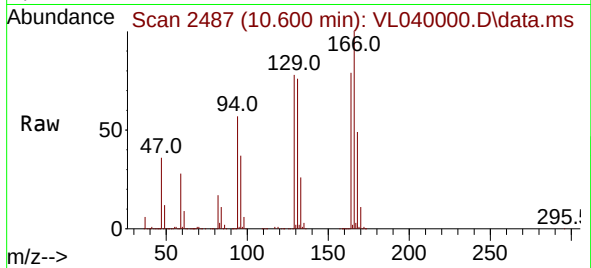
Tgt Ion:130 Resp: 11940
Ion Ratio Lower Upper
130 100
95 81.8 90.6 135.8#
132 84.6 76.2 114.4
97 61.1 58.0 87.0





#52
Tetrachloroethene
Concen: 44.277 ppbv
RT: 10.600 min Scan# 2491
Delta R.T. 0.019 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

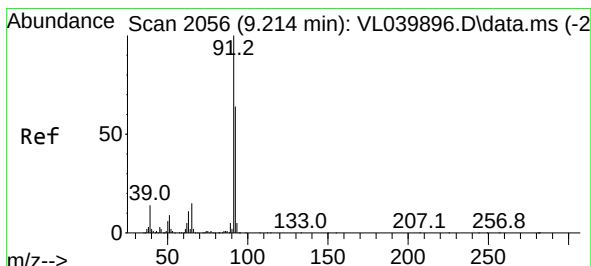
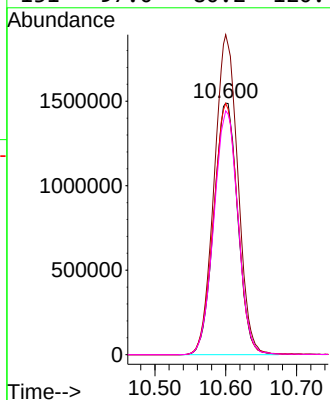
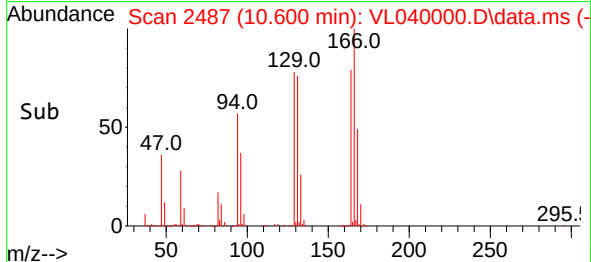
Instrument :
MSVOA_L
ClientSampleId :
SG-3



Tgt Ion:164 Resp: 348630
Ion Ratio Lower Upper
164 100
166 127.2 98.3 147.5
129 99.9 79.7 119.5
131 97.0 80.2 120.4

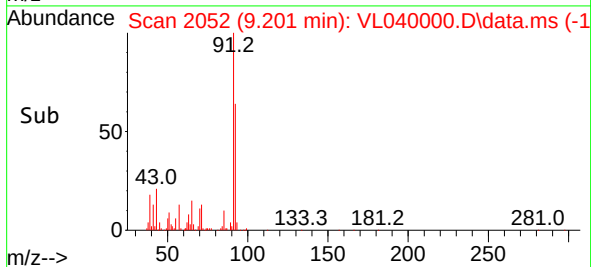
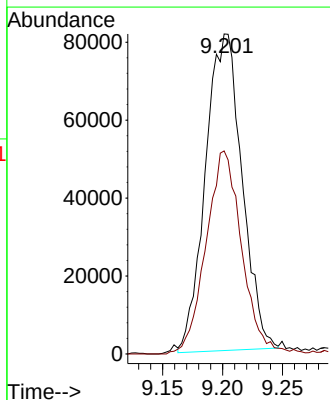
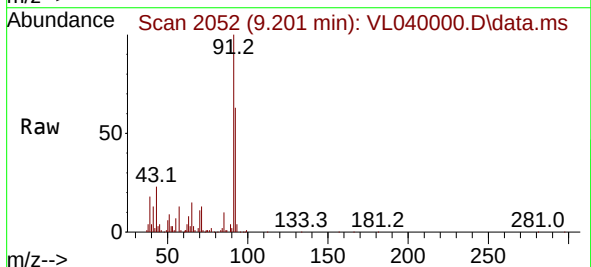
Manual Integrations
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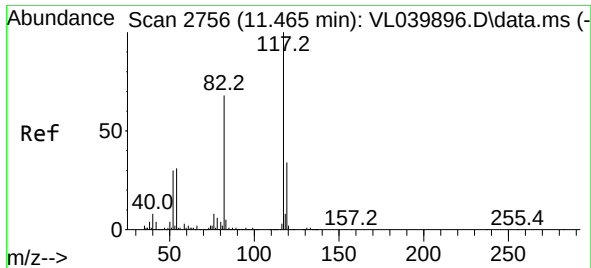
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#53
Toluene
Concen: 0.719 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. 0.016 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

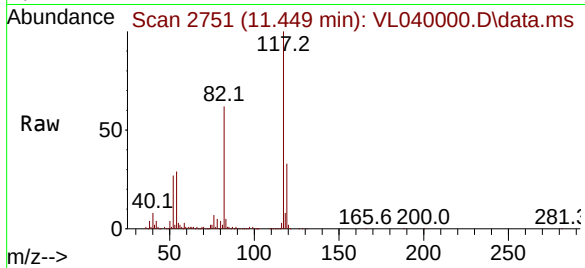
Tgt Ion: 91 Resp: 172340
Ion Ratio Lower Upper
91 100
92 63.2 49.8 74.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

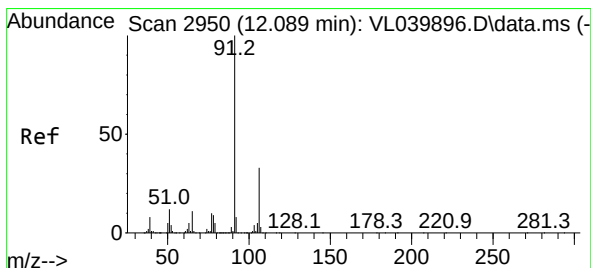
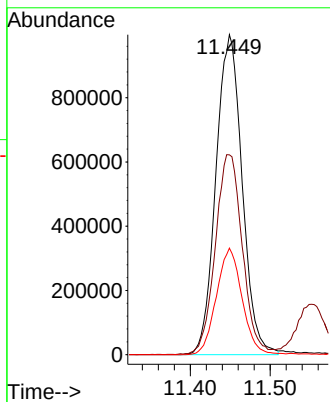
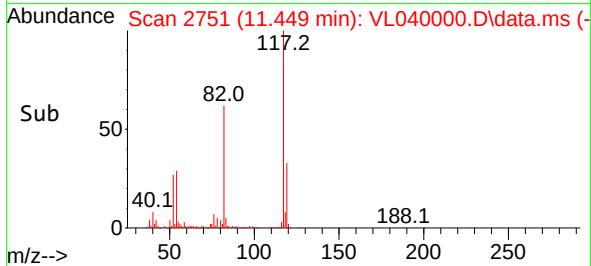
Instrument :
MSVOA_L
ClientSampleId :
SG-3



Tgt Ion:117 Resp: 2271040
Ion Ratio Lower Upper
117 100
82 64.5 52.3 78.5
119 32.8 25.7 38.5

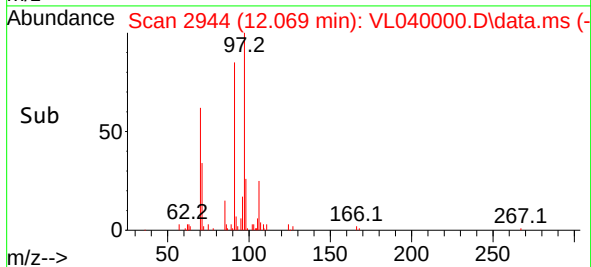
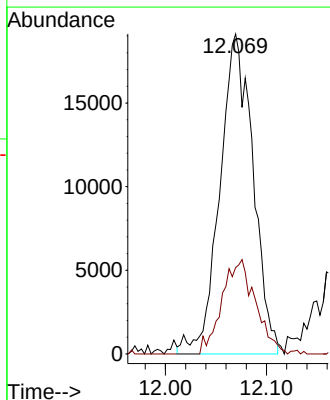
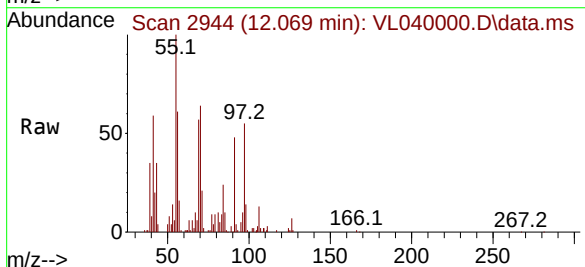
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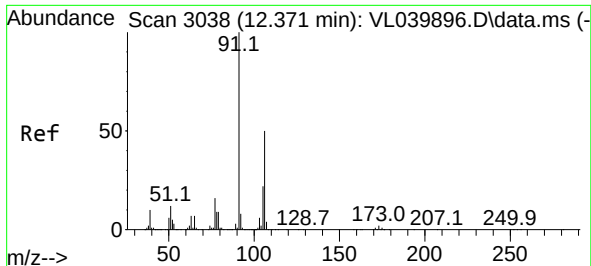
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022



#58
Ethyl Benzene
Concen: 0.142 ppbv m
RT: 12.069 min Scan# 2944
Delta R.T. 0.013 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

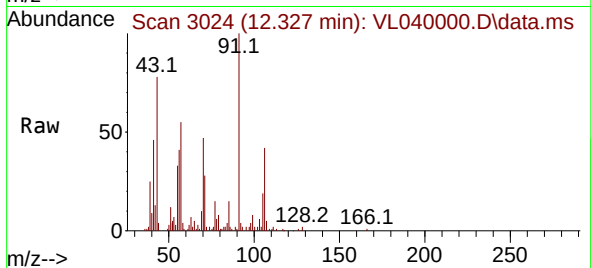
Tgt Ion: 91 Resp: 43616
Ion Ratio Lower Upper
91 100
106 27.0 26.1 39.1





#59
m/p-Xylene
Concen: 0.467 ppbv m
RT: 12.327 min Scan# 3038
Delta R.T. -0.013 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

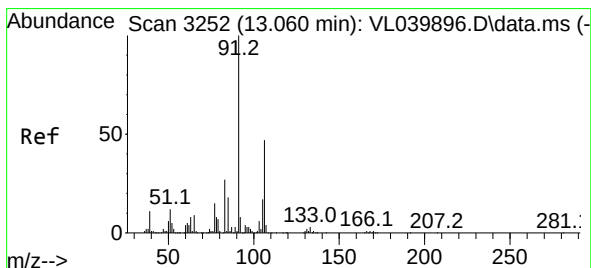
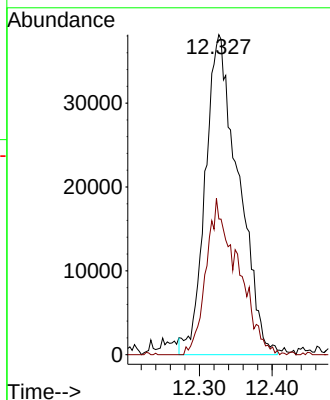
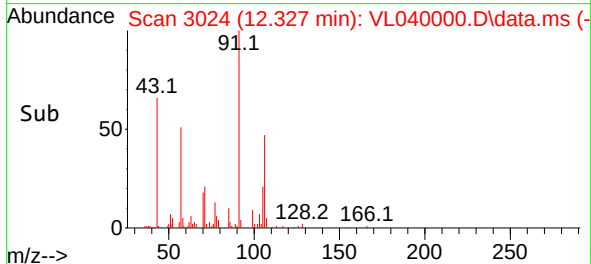
Instrument :
MSVOA_L
ClientSampleId :
SG-3



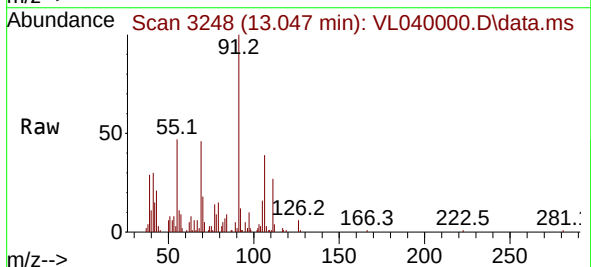
Tgt Ion: 91 Resp: 120542
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.6

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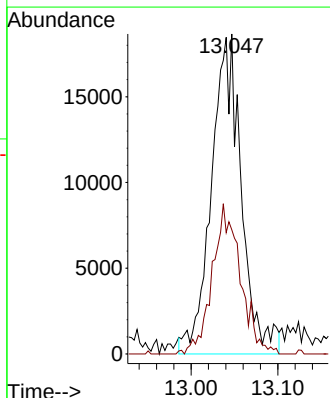
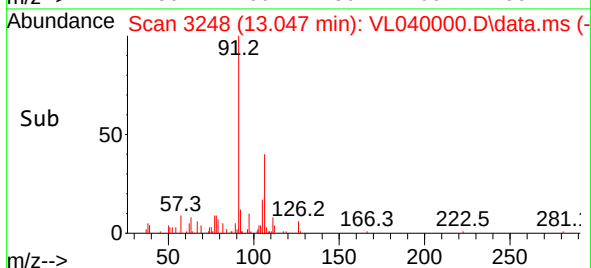
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

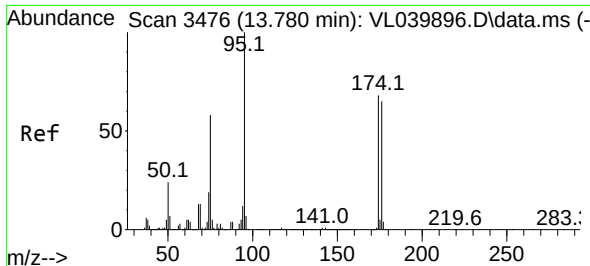


#60
o-Xylene
Concen: 0.181 ppbv m
RT: 13.047 min Scan# 3248
Delta R.T. 0.019 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49



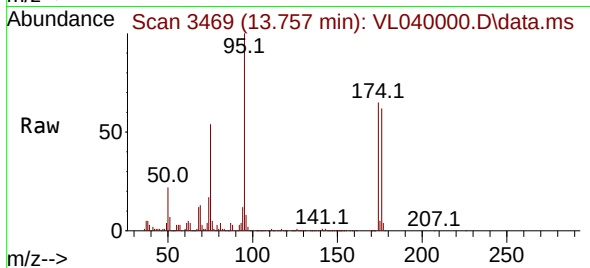
Tgt Ion: 91 Resp: 44609
Ion Ratio Lower Upper
91 100
106 0.0 23.2 69.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.524 ppbv
RT: 13.757 min Scan# 3476
Delta R.T. 0.016 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49

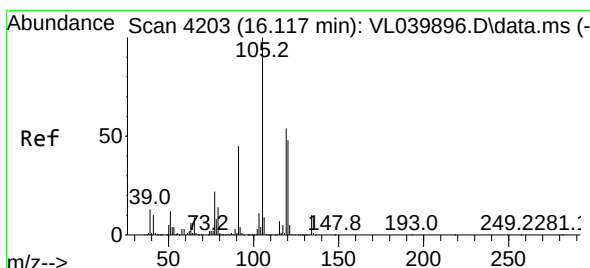
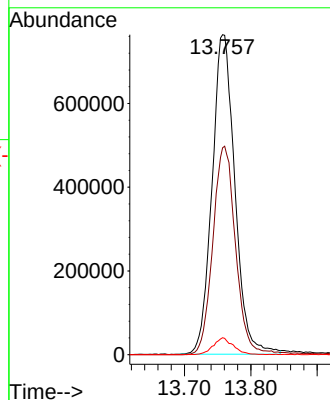
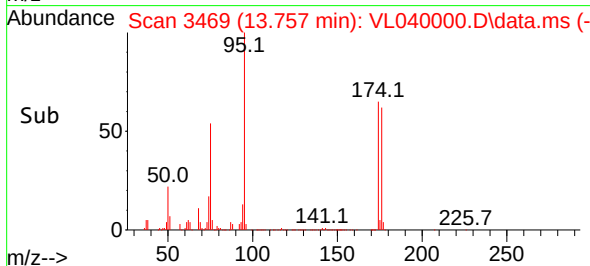
Instrument :
MSVOA_L
ClientSampleId :
SG-3



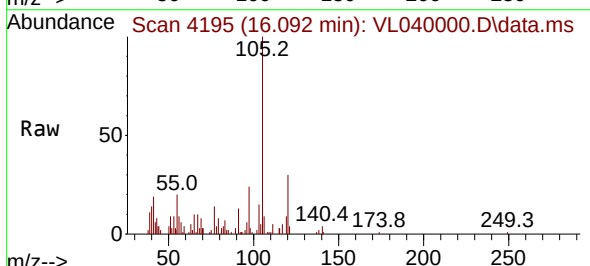
Tgt Ion: 95 Resp: 182558
Ion Ratio Lower Upper
95 100
174 65.7 53.7 80.5
175 4.7 4.0 6.0

Manual Integrations
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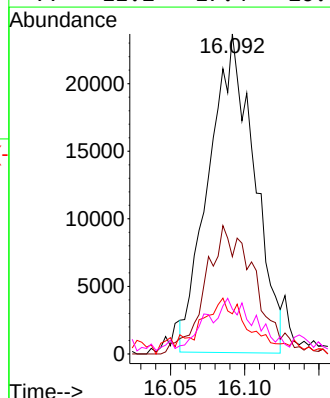
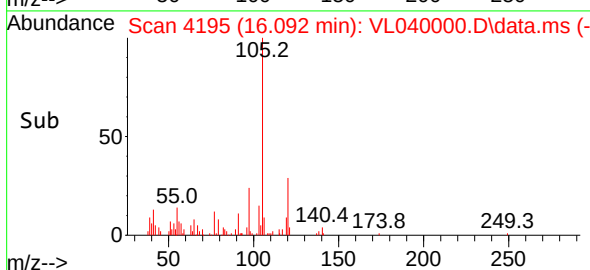
Reviewed By :Semsettin Yesilyurt 12/14/2022
Supervised By :Mahesh Dadoda 12/14/2022

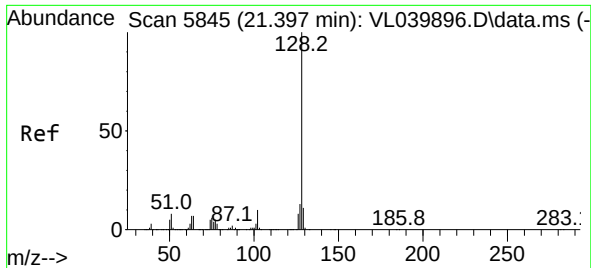


#74
1,2,4-Trimethylbenzene
Concen: 0.186 ppbv
RT: 16.092 min Scan# 4195
Delta R.T. 0.016 min
Lab File: VL040000.D
Acq: 13 Dec 2022 6:49



Tgt Ion:105 Resp: 49908
Ion Ratio Lower Upper
105 100
120 28.9 38.7 58.1#
91 10.5 36.4 54.6#
77 11.2 17.4 26.0#





#79

Naphthalene

Concen: 0.285 ppbv m

RT: 21.368 min Scan# 5836

Delta R.T. 0.019 min

Lab File: VL040000.D

Acq: 13 Dec 2022 6:49

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tgt Ion:128 Resp: 4576

Ion Ratio Lower Upper

128 100

127 5.8 10.0 15.0

129 11.0 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/14/2022

Supervised By :Mahesh Dadoda 12/14/2022

