

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
 Data File : VL040032.D
 Acq On : 19 Dec 2022 17:32
 Operator : SY/MD
 Sample : N6059-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2022
 Supervised By : Mahesh Dadoda 12/20/2022

Quant Time: Dec 20 05:13:53 2022

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M

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

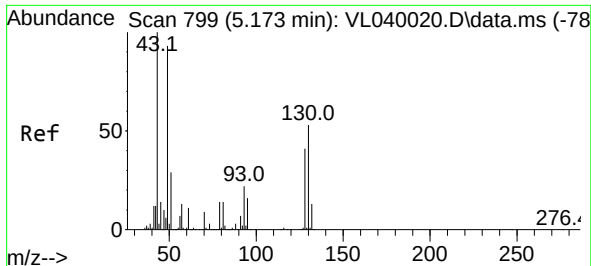
QLast Update : Tue Dec 20 04:50:21 2022

Response via : Initial Calibration

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

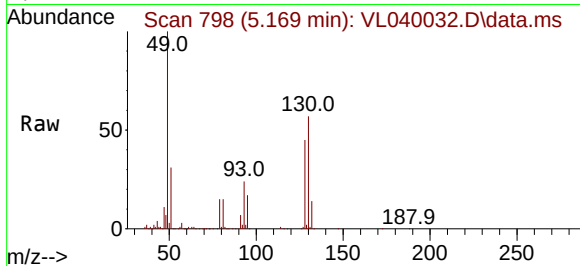
Internal Standards						
1) Bromochloromethane	5.169	49	993059	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	2770696	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.446	117	2391307	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1797926	9.843	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	35795	0.193	ppbv	97
3) Chlorodifluoromethane	2.661	51	34312m	0.234	ppbv	
4) Chloromethane	2.796	50	35960	0.392	ppbv	96
9) Propene	2.690	41	124876m	2.008	ppbv	
10) Heptane	7.562	43	70646m	0.466	ppbv	
11) Trichlorofluoromethane	3.546	101	34861	0.173	ppbv	85
13) Ethanol	3.218	45	1057337	180.673	ppbv	98
15) Acetone	3.446	43	1657012	10.786	ppbv	96
19) Isopropyl Alcohol	3.558	45	360770	4.765	ppbv #	1
20) Methylene Chloride	3.915	84	152771	2.340	ppbv	94
26) Hexane	5.192	57	202973	1.815	ppbv #	56
29) Chloroform	5.256	83	20710	0.121	ppbv	97
30) Cyclohexane	6.578	84	29825m	0.301	ppbv	
34) 2-Butanone	4.777	43	30036m	0.200	ppbv	
35) Carbon Tetrachloride	6.472	117	10257m	0.060	ppbv	
36) Benzene	6.346	78	85636	0.346	ppbv	96
44) 2,2,4-Trimethylpentane	7.304	57	120590	0.296	ppbv #	81
53) Toluene	9.198	91	391009	1.427	ppbv	99
58) Ethyl Benzene	12.069	91	104540m	0.308	ppbv	
59) m/p-Xylene	12.327	91	319232	1.079	ppbv	98
60) o-Xylene	13.040	91	139883	0.493	ppbv	96
64) n-propylbenzene	14.902	120	18359m	0.178	ppbv	
72) 4-Ethyltoluene	15.179	105	95788m	0.304	ppbv	
73) 1,3,5-Trimethylbenzene	15.336	105	88520	0.312	ppbv	91
74) 1,2,4-Trimethylbenzene	16.089	105	318289m	1.017	ppbv	
79) Naphthalene	21.371	128	21586m	0.116	ppbv	

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 799
Delta R.T. -0.004 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

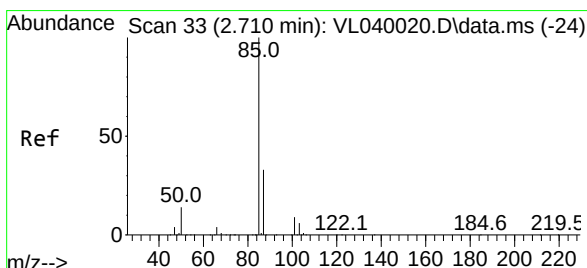
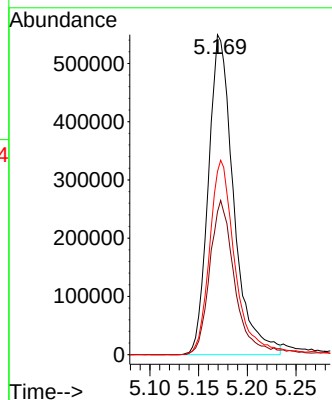
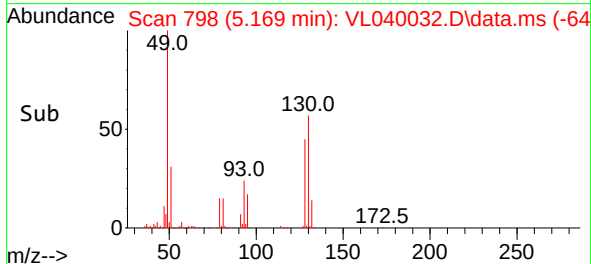
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 993059
Ion Ratio Lower Upper
49 100
128 49.1 22.4 67.3
130 63.2 28.9 86.8

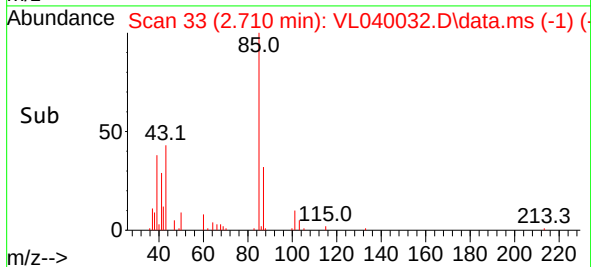
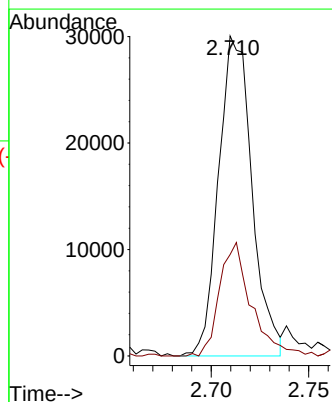
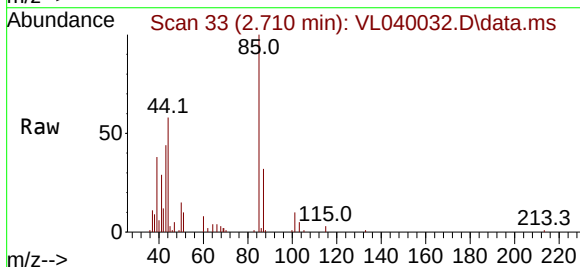
Manual Integrations
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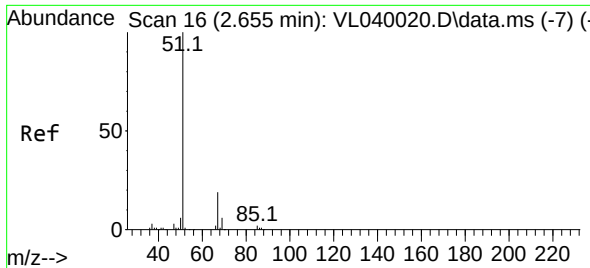
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#2
Dichlorodifluoromethane
Concen: 0.193 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.000 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

Tgt Ion: 85 Resp: 35795
Ion Ratio Lower Upper
85 100
87 31.7 26.6 40.0





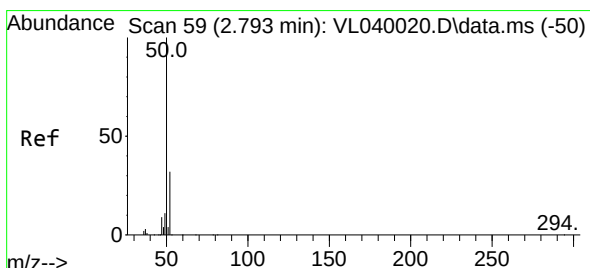
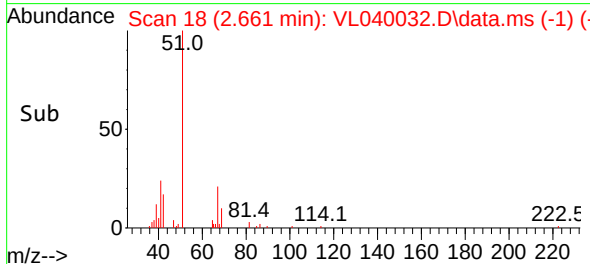
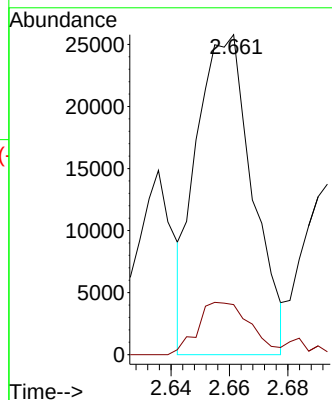
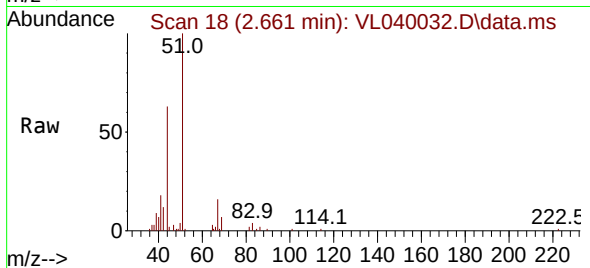
#3
Chlorodifluoromethane
Concen: 0.234 ppbv m
RT: 2.661 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 51 Resp: 3431
Ion Ratio Lower Upper
51 100
67 18.1 15.3 22.9

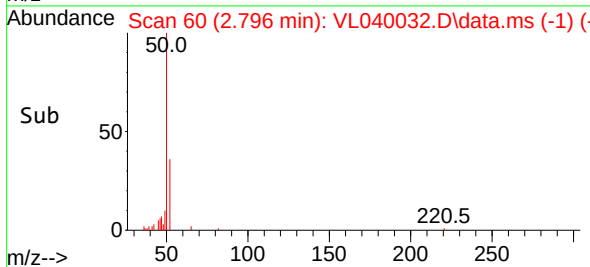
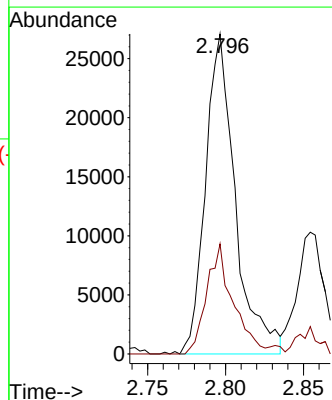
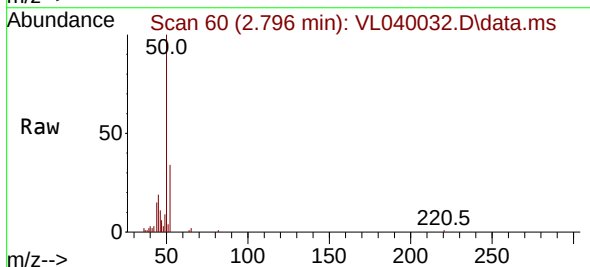
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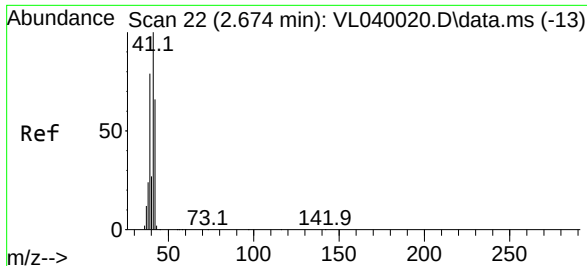
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#4
Chloromethane
Concen: 0.392 ppbv
RT: 2.796 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

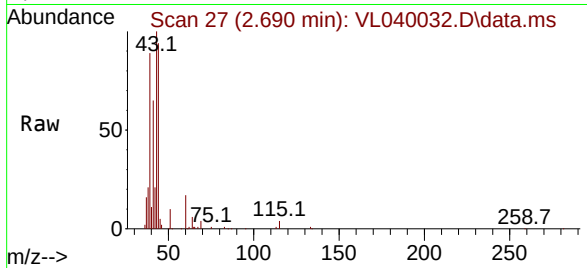
Tgt Ion: 50 Resp: 35960
Ion Ratio Lower Upper
50 100
52 34.4 25.5 38.3





#9
Propene
Concen: 2.008 ppbv m
RT: 2.690 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

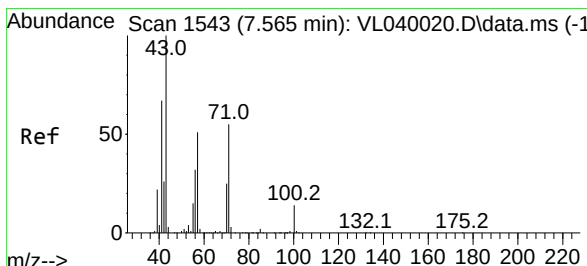
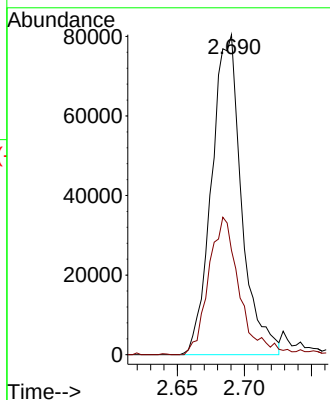
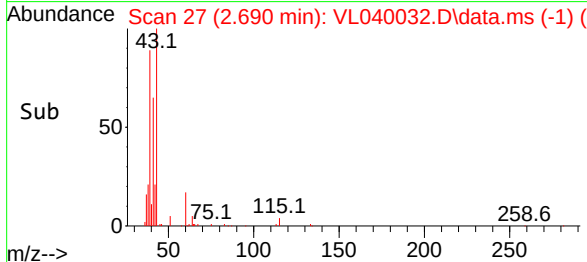
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 41 Resp: 124870
Ion Ratio Lower Upper
41 100
42 273.6 54.8 82.2

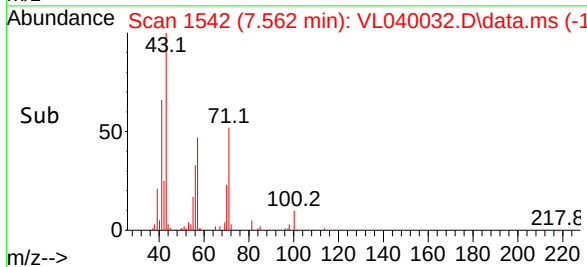
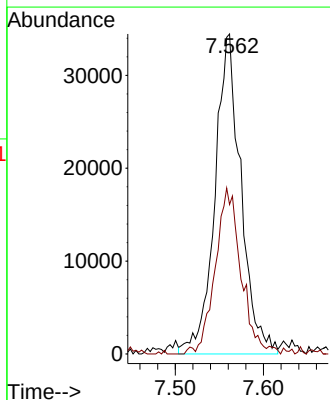
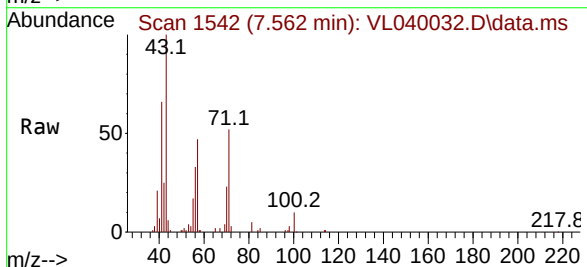
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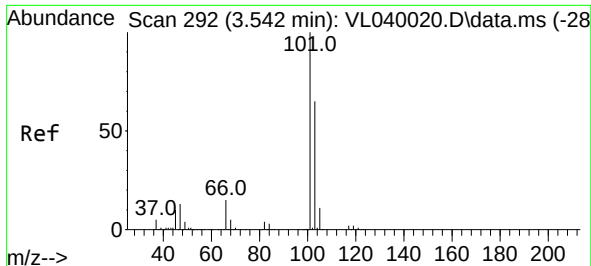
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#10
Heptane
Concen: 0.466 ppbv m
RT: 7.562 min Scan# 1542
Delta R.T. -0.003 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

Tgt Ion: 43 Resp: 70646
Ion Ratio Lower Upper
43 100
57 52.3 41.2 61.8





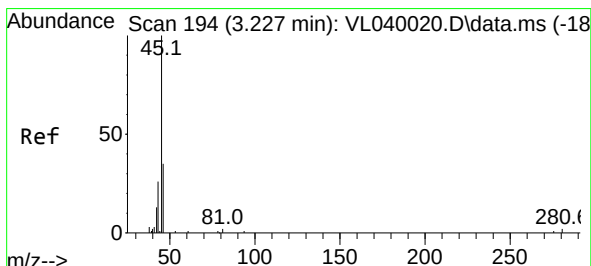
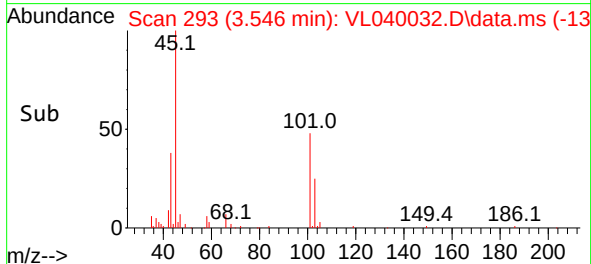
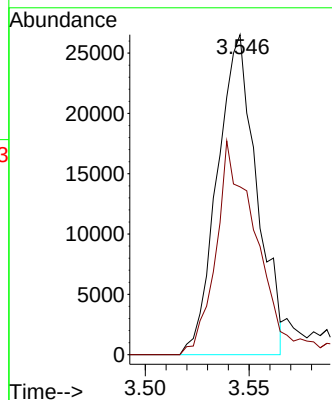
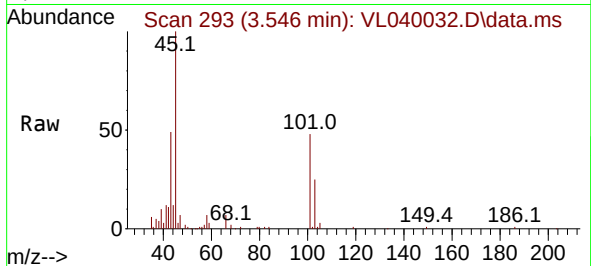
#11
Trichlorofluoromethane
Concen: 0.173 ppbv
RT: 3.546 min Scan# 292
Delta R.T. 0.003 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion:101 Resp: 3486
Ion Ratio Lower Upper
101 100
103 52.4 51.7 77.5

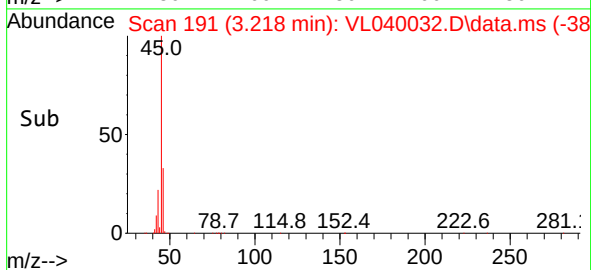
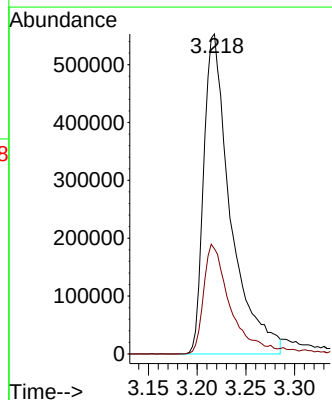
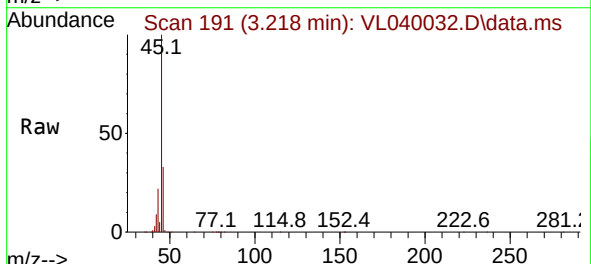
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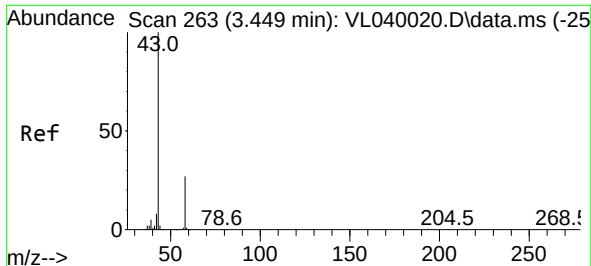
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#13
Ethanol
Concen: 180.673 ppbv
RT: 3.218 min Scan# 191
Delta R.T. -0.010 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

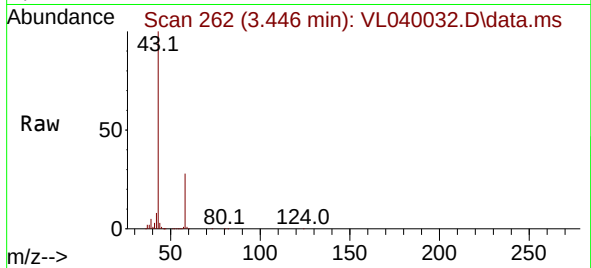
Tgt Ion: 45 Resp: 1057337
Ion Ratio Lower Upper
45 100
46 35.6 13.7 54.7





#15
Acetone
Concen: 10.786 ppbv
RT: 3.446 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

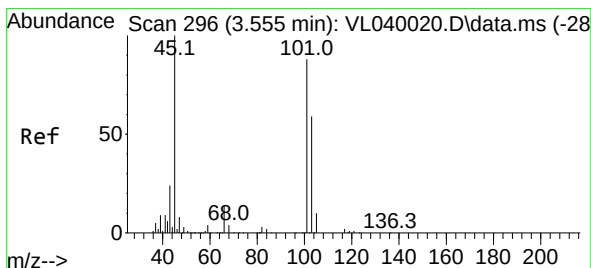
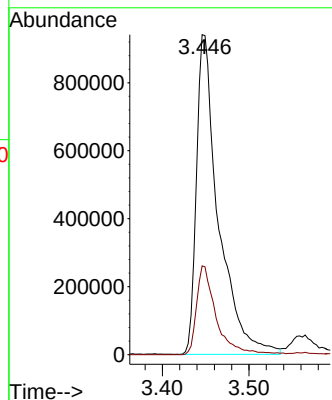
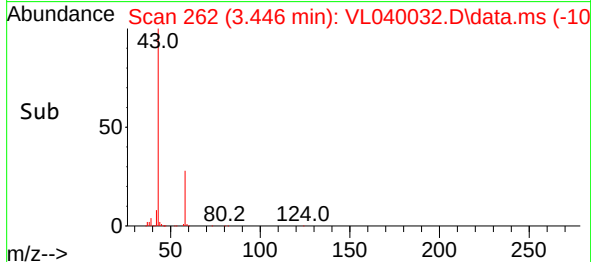
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 165701
Ion Ratio Lower Upper
43 100
58 25.0 21.8 32.8

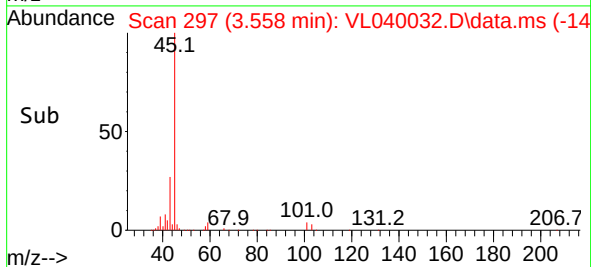
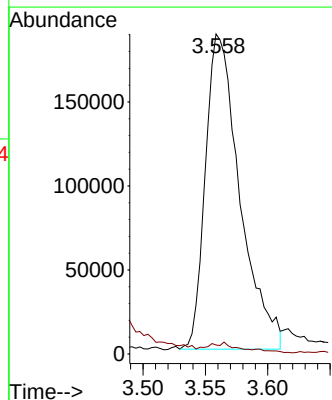
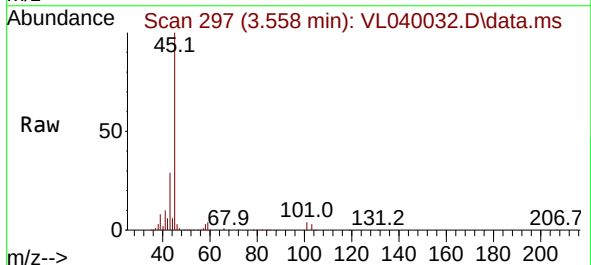
Manual Integrations
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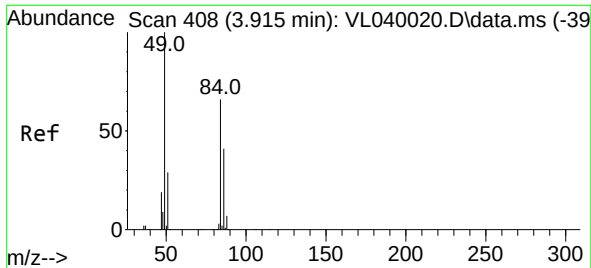
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#19
Isopropyl Alcohol
Concen: 4.765 ppbv
RT: 3.558 min Scan# 297
Delta R.T. 0.003 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

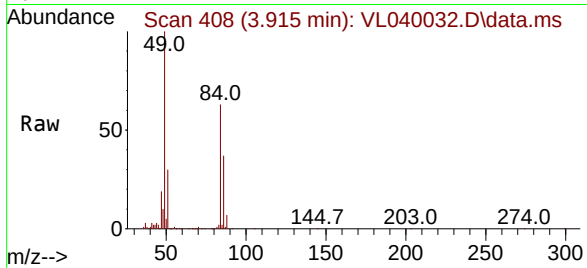
Tgt Ion: 45 Resp: 360770
Ion Ratio Lower Upper
45 100
58 114.8 1.7 2.5#





#20
Methylene Chloride
Concen: 2.340 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.000 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

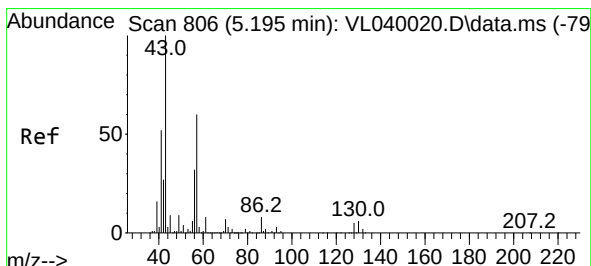
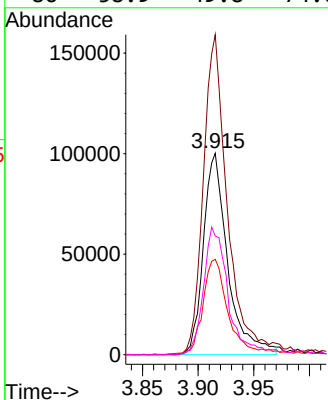
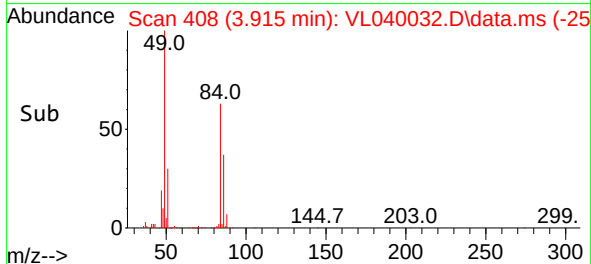
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 84 Resp: 152772
Ion Ratio Lower Upper
84 100
49 158.9 120.5 180.7
51 46.8 35.2 52.8
86 58.9 49.8 74.6

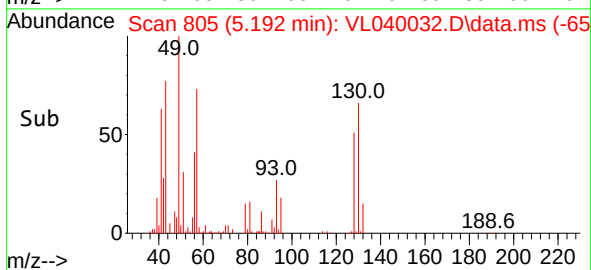
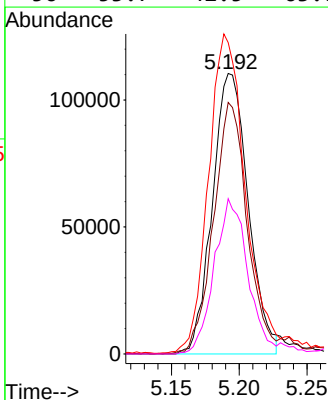
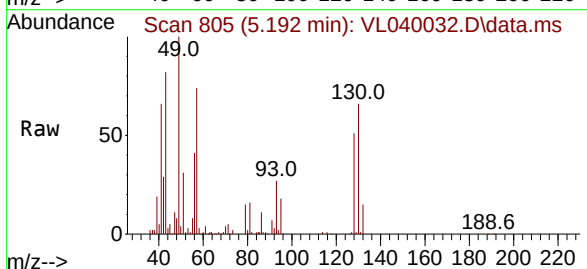
Manual Integrations
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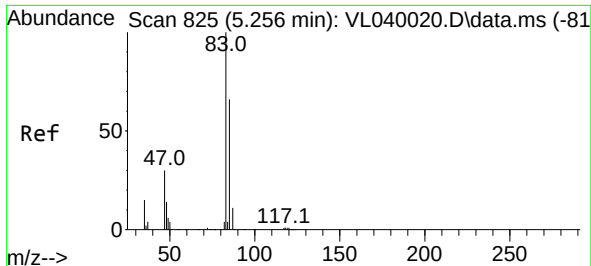
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#26
Hexane
Concen: 1.815 ppbv
RT: 5.192 min Scan# 805
Delta R.T. -0.003 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

Tgt Ion: 57 Resp: 202973
Ion Ratio Lower Upper
57 100
41 90.5 72.1 108.1
43 121.9 192.1 288.1#
56 53.7 42.5 63.7





#29

Chloroform

Concen: 0.121 ppbv

RT: 5.256 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL040032.D

Acq: 19 Dec 2022 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion: 83 Resp: 20710

Ion Ratio Lower Upper

83 100

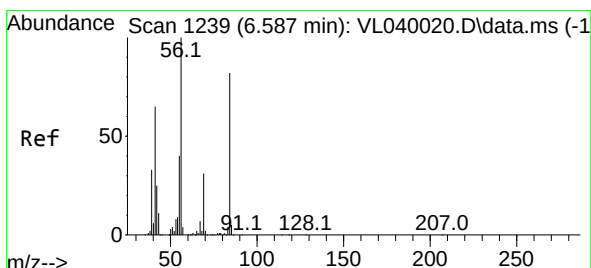
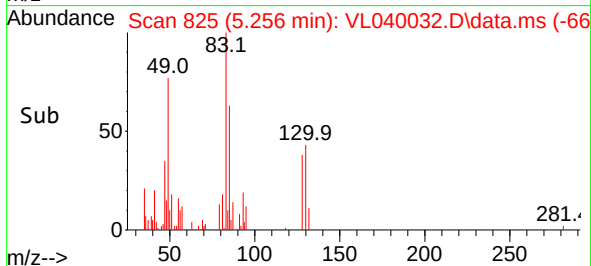
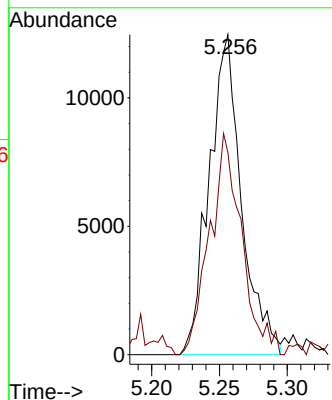
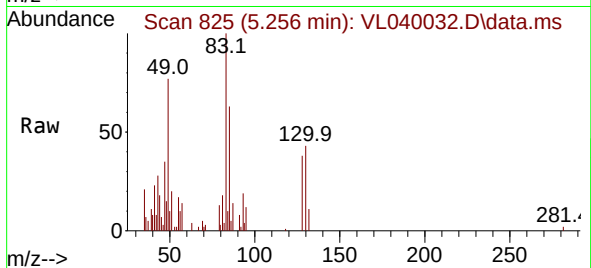
85 63.2 52.4 78.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 12/20/2022

Supervised By :Mahesh Dadoda 12/20/2022



#30

Cyclohexane

Concen: 0.301 ppbv m

RT: 6.578 min Scan# 1236

Delta R.T. -0.010 min

Lab File: VL040032.D

Acq: 19 Dec 2022 17:32

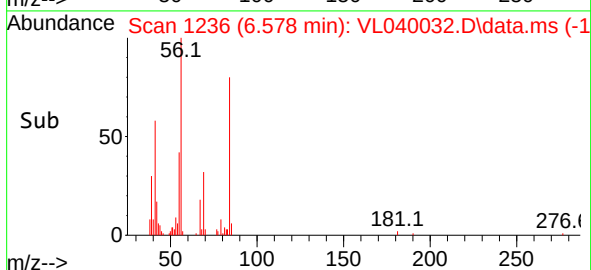
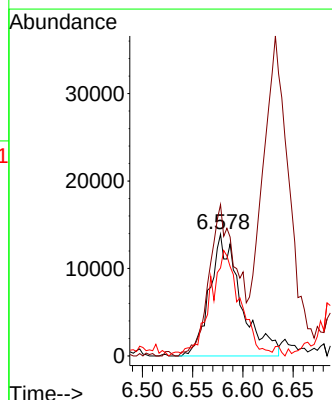
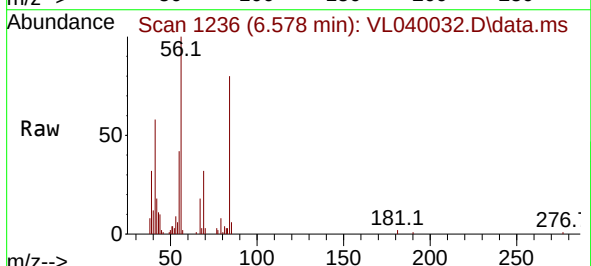
Tgt Ion: 84 Resp: 29825

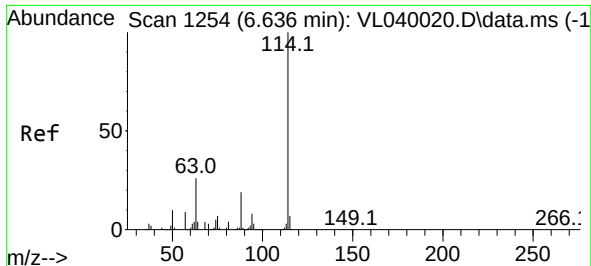
Ion Ratio Lower Upper

84 100

56 107.8 110.2 165.4#

41 86.7 67.8 101.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 1253

Delta R.T. -0.003 min

Lab File: VL040032.D

Acq: 19 Dec 2022 17:32

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tgt Ion:114 Resp: 2770690

Ion Ratio Lower Upper

114 100

63 24.6 20.2 30.2

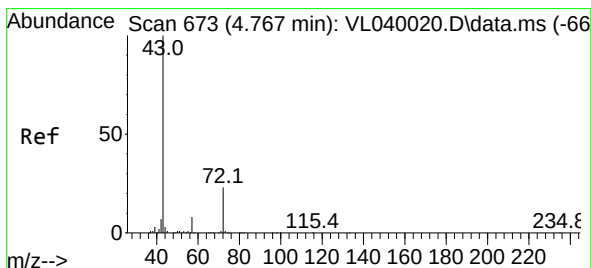
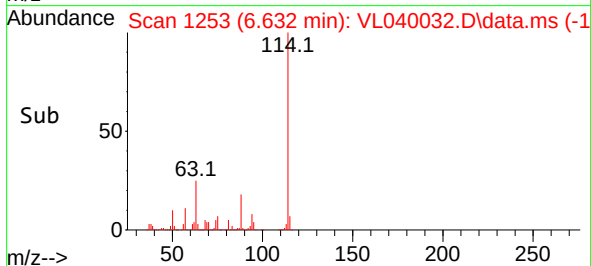
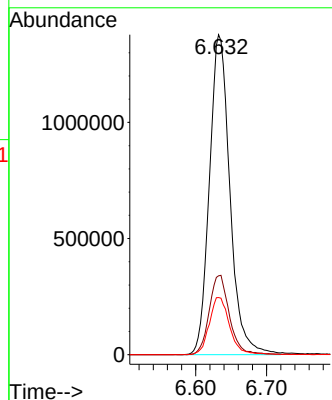
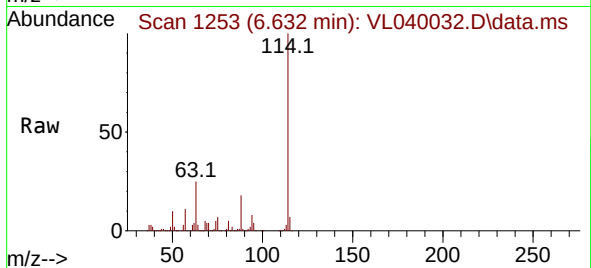
88 17.7 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2022

Supervised By :Mahesh Dadoda 12/20/2022



#34

2-Butanone

Concen: 0.200 ppbv m

RT: 4.777 min Scan# 676

Delta R.T. 0.010 min

Lab File: VL040032.D

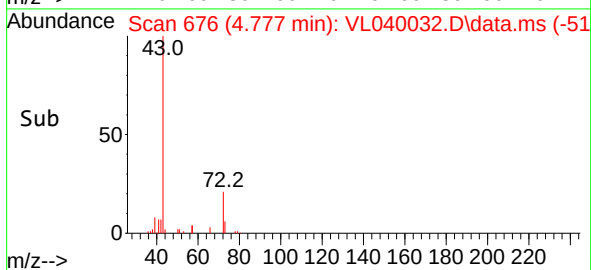
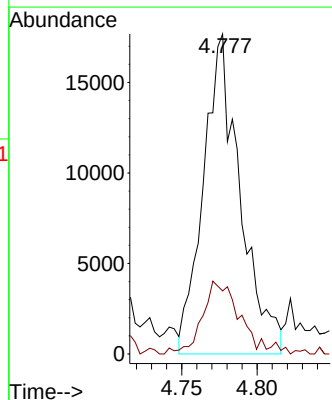
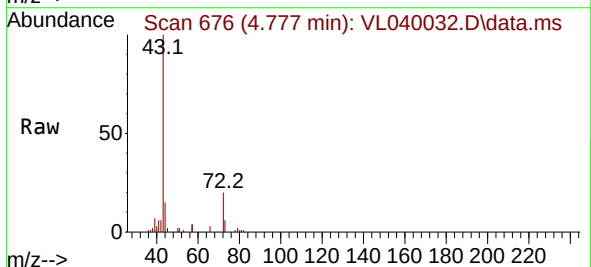
Acq: 19 Dec 2022 17:32

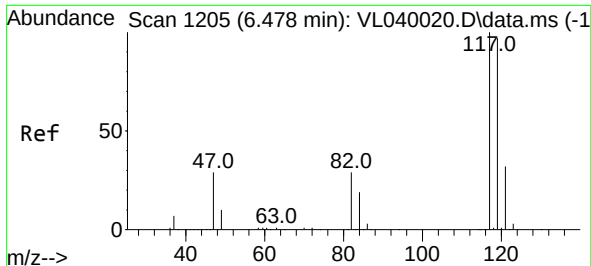
Tgt Ion: 43 Resp: 30036

Ion Ratio Lower Upper

43 100

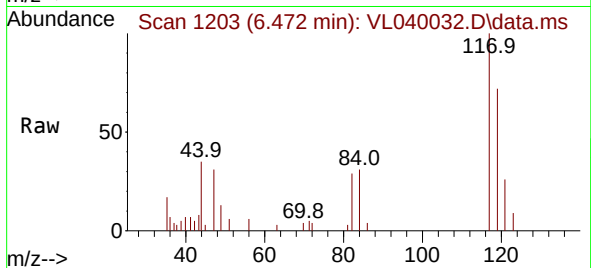
72 24.1 18.0 27.0





#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 6.472 min Scan# 1164
Delta R.T. -0.006 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

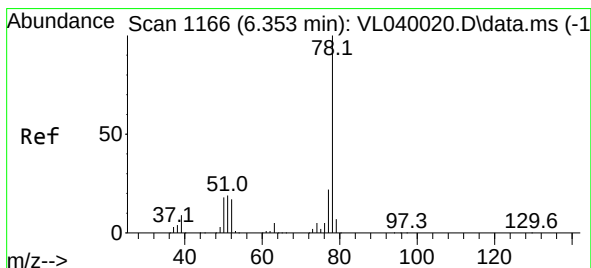
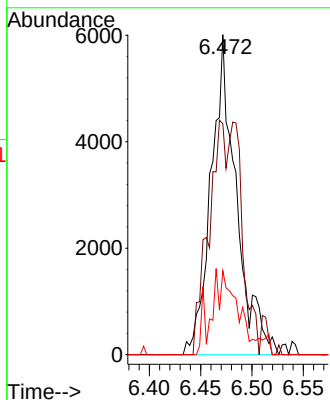
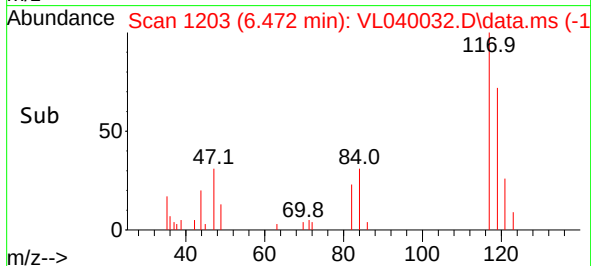
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 117 Resp: 1025
Ion Ratio Lower Upper
117 100
119 72.2 77.3 115.9
121 26.3 25.4 38.0

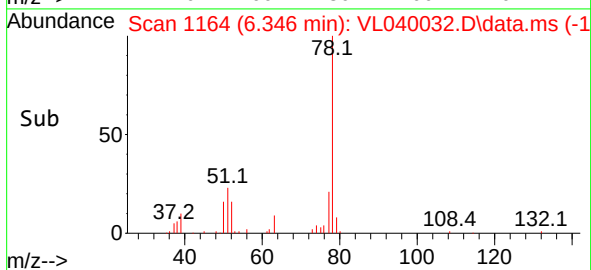
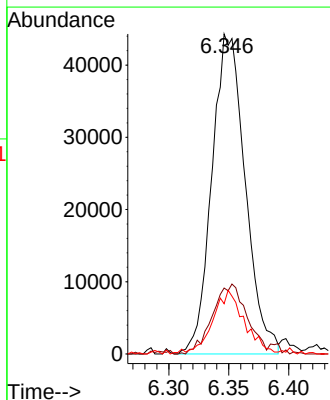
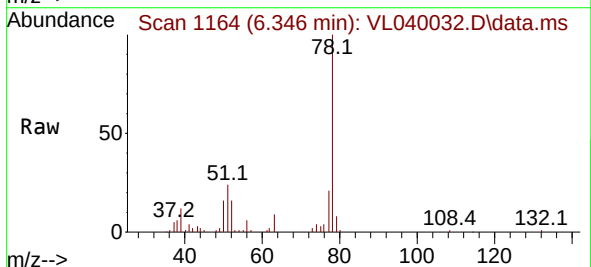
Manual Integrations
APPROVED

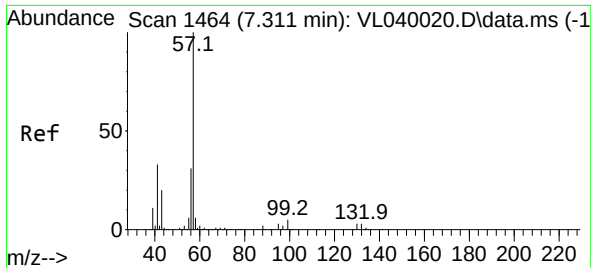
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#36
Benzene
Concen: 0.346 ppbv
RT: 6.346 min Scan# 1164
Delta R.T. -0.006 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

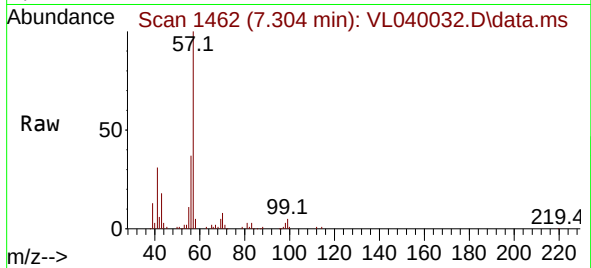
Tgt Ion: 78 Resp: 85636
Ion Ratio Lower Upper
78 100
77 20.6 17.5 26.3
50 15.1 14.2 21.2





#44
2,2,4-Trimethylpentane
Concen: 0.296 ppbv
RT: 7.304 min Scan# 1462
Delta R.T. -0.006 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

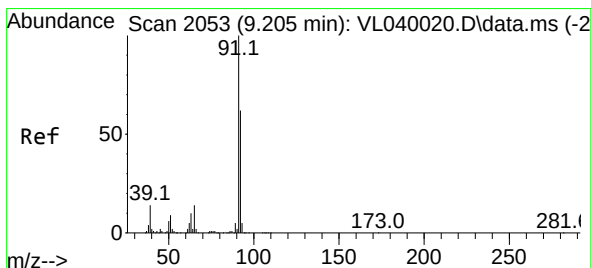
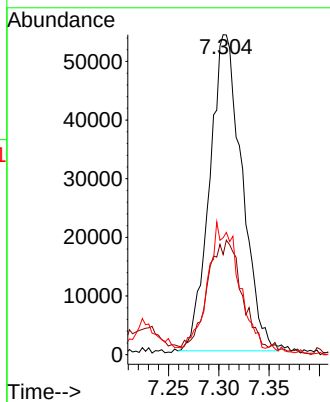
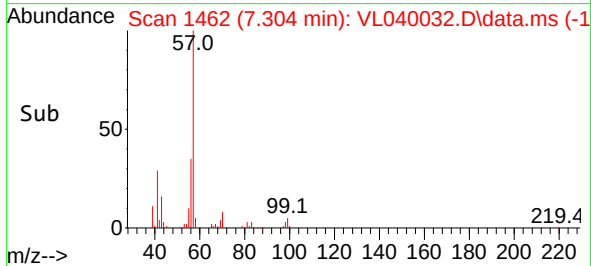
Instrument : MSVOA_L
ClientSampleId : IA1DUP



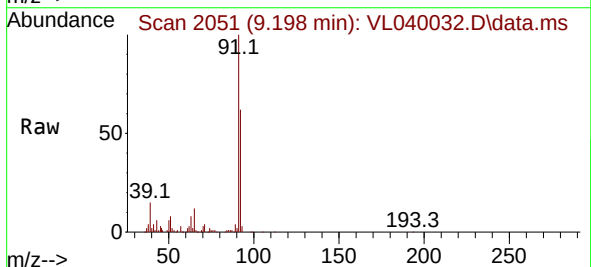
Tgt Ion: 57 Resp: 120590
Ion Ratio Lower Upper
57 100
41 42.4 26.2 39.4
56 43.4 25.1 37.7

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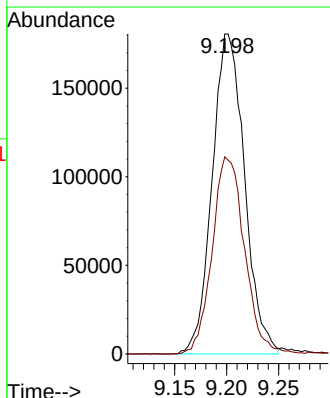
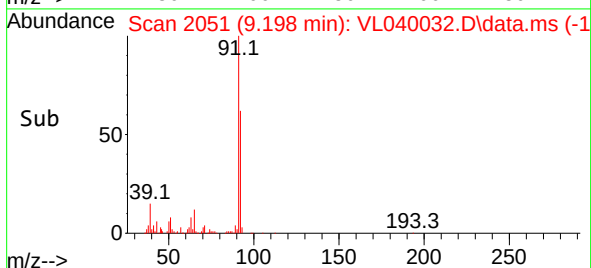
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022

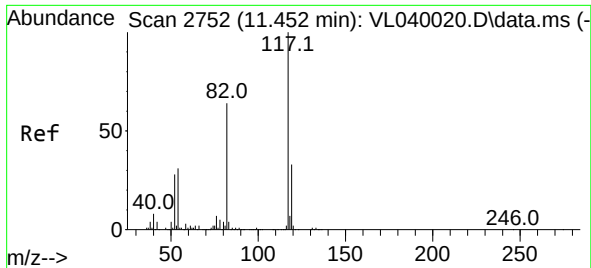


#53
Toluene
Concen: 1.427 ppbv
RT: 9.198 min Scan# 2051
Delta R.T. -0.006 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32



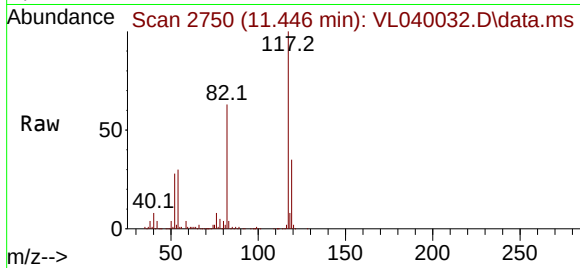
Tgt Ion: 91 Resp: 391009
Ion Ratio Lower Upper
91 100
92 61.9 48.7 73.1





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

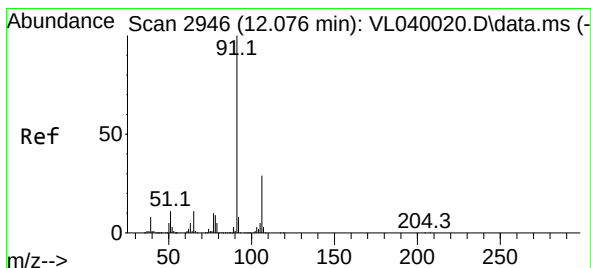
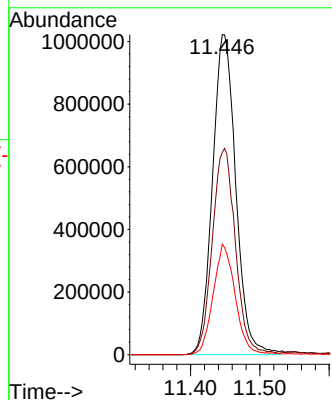
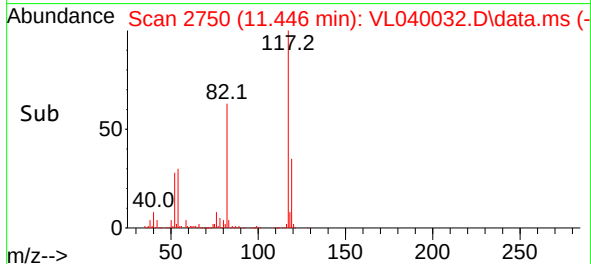
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:117 Resp: 239130
Ion Ratio Lower Upper
117 100
82 65.2 51.2 76.8
119 32.7 23.2 34.8

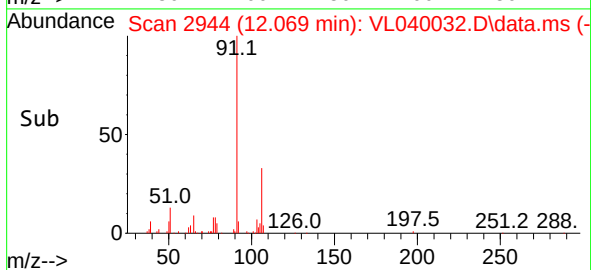
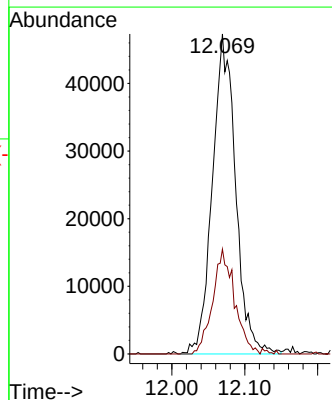
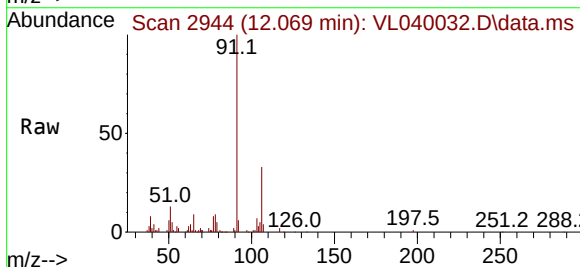
Manual Integrations
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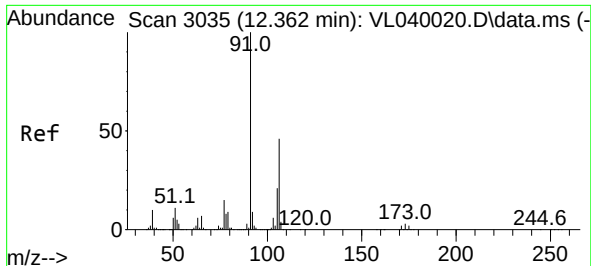
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#58
Ethyl Benzene
Concen: 0.308 ppbv m
RT: 12.069 min Scan# 2944
Delta R.T. -0.006 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

Tgt Ion: 91 Resp: 104540
Ion Ratio Lower Upper
91 100
106 32.7 23.5 35.3





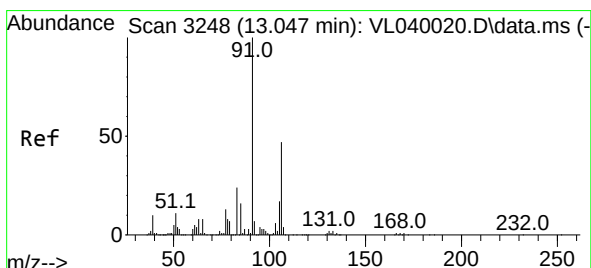
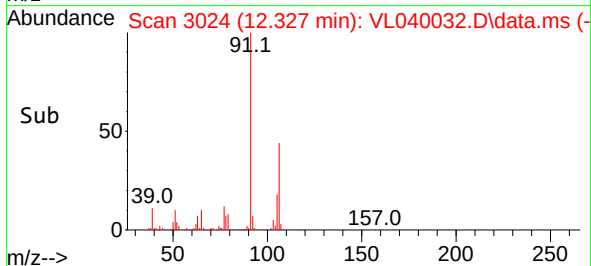
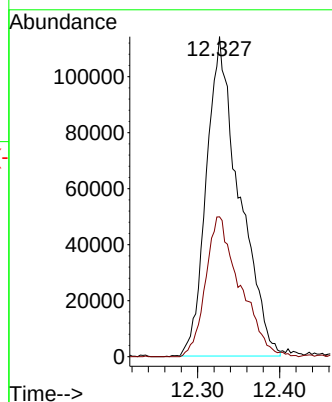
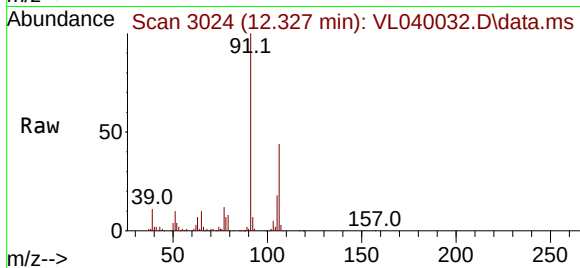
#59
m/p-Xylene
Concen: 1.079 ppbv
RT: 12.327 min Scan# 3035
Delta R.T. -0.035 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 31923
Ion Ratio Lower Upper
91 100
106 45.8 35.5 53.3

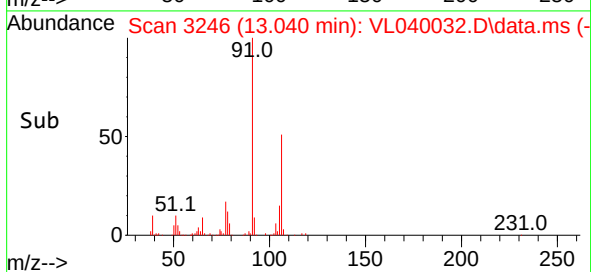
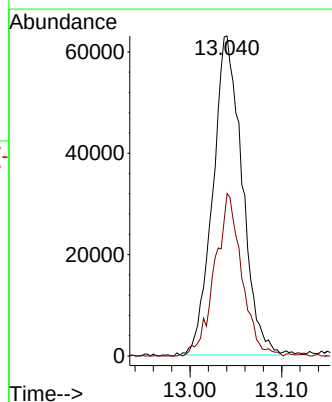
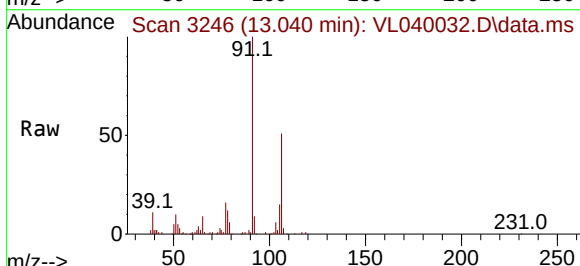
Manual Integrations
APPROVED

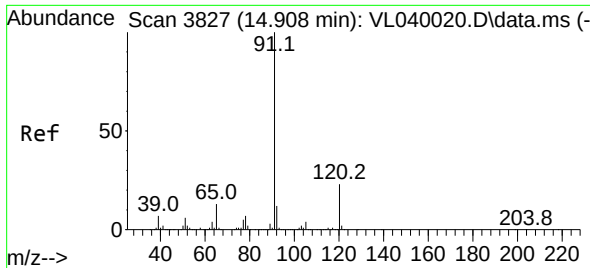
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#60
o-Xylene
Concen: 0.493 ppbv
RT: 13.040 min Scan# 3246
Delta R.T. -0.006 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

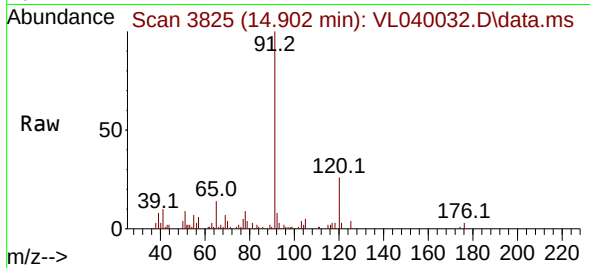
Tgt Ion: 91 Resp: 139883
Ion Ratio Lower Upper
91 100
106 47.2 22.4 67.0





#64
n-propylbenzene
Concen: 0.178 ppbv m
RT: 14.902 min Scan# 3825
Delta R.T. -0.006 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

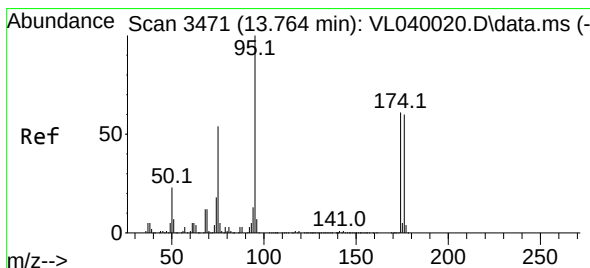
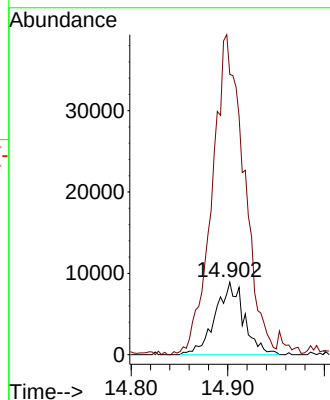
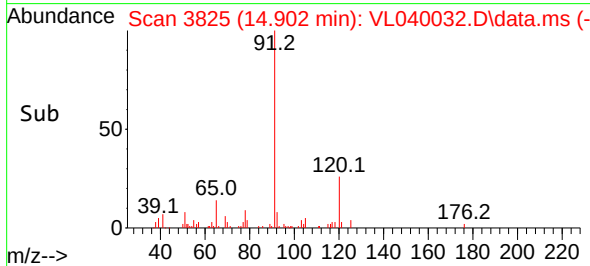
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 120 Resp: 1835
Ion Ratio Lower Upper
120 100
91 504.0 384.3 576.5

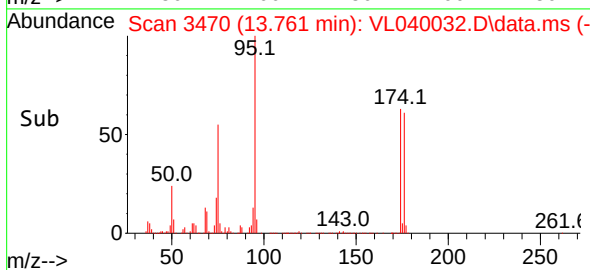
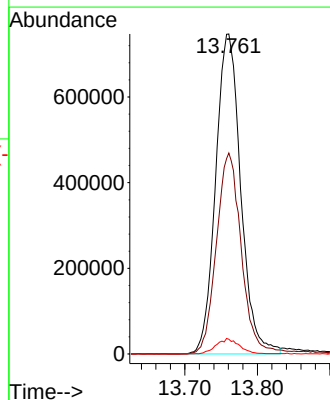
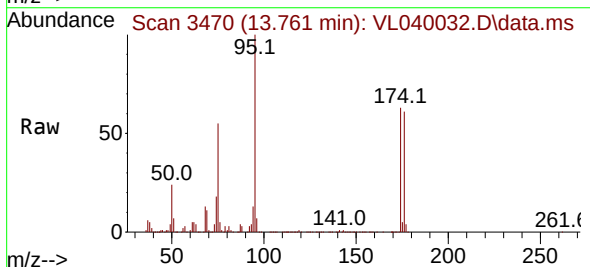
Manual Integrations
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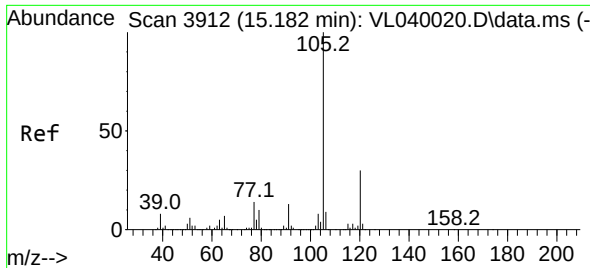
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#68
1-Bromo-4-Fluorobenzene
Concen: 9.843 ppbv
RT: 13.761 min Scan# 3470
Delta R.T. -0.003 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

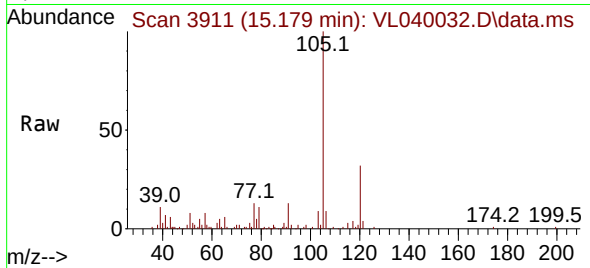
Tgt Ion: 95 Resp: 1797926
Ion Ratio Lower Upper
95 100
174 63.0 48.6 73.0
175 4.6 3.4 5.2





#72
4-Ethyltoluene
Concen: 0.304 ppbv m
RT: 15.179 min Scan# 3911
Delta R.T. -0.003 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

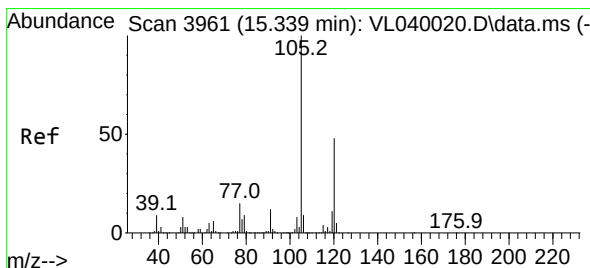
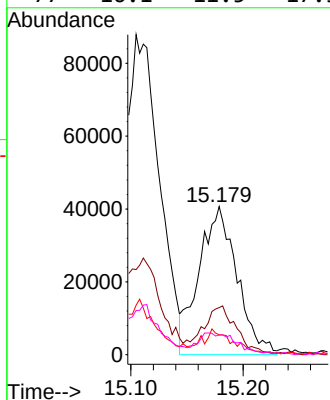
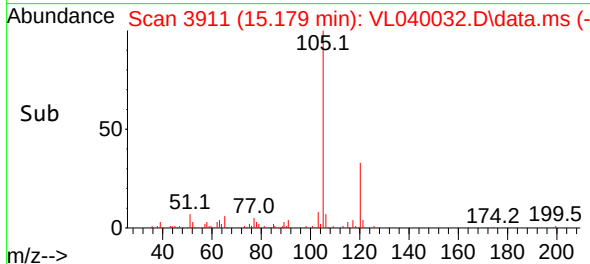
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:105 Resp: 9578
Ion Ratio Lower Upper
105 100
120 30.6 23.5 35.3
91 12.5 10.5 15.7
77 16.1 11.5 17.3

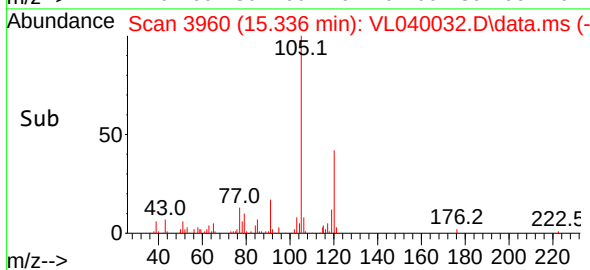
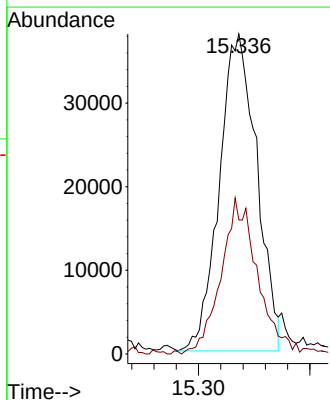
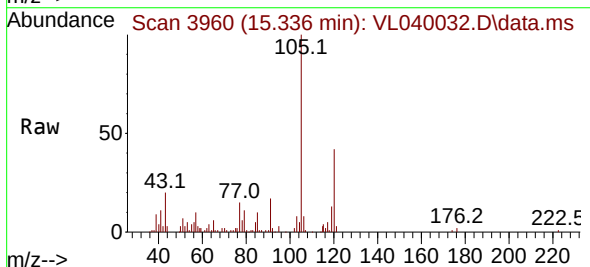
Manual Integrations
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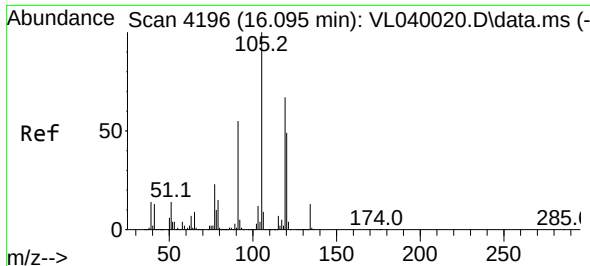
Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#73
1,3,5-Trimethylbenzene
Concen: 0.312 ppbv
RT: 15.336 min Scan# 3960
Delta R.T. -0.003 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

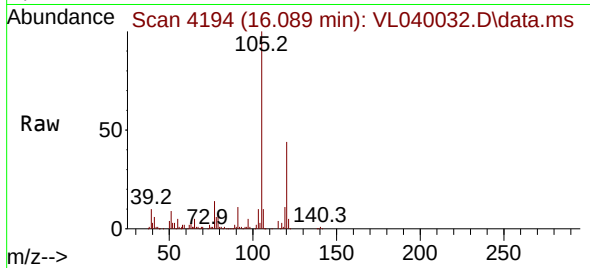
Tgt Ion:105 Resp: 88520
Ion Ratio Lower Upper
105 100
120 41.6 38.4 57.6





#74
1,2,4-Trimethylbenzene
Concen: 1.017 ppbv m
RT: 16.089 min Scan# 4196
Delta R.T. -0.006 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32

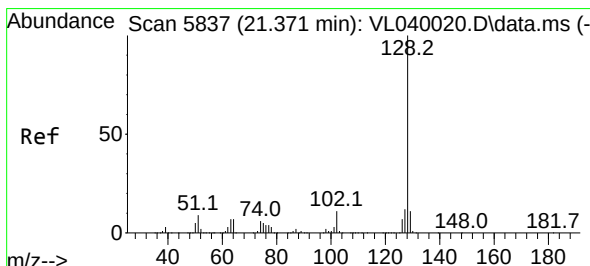
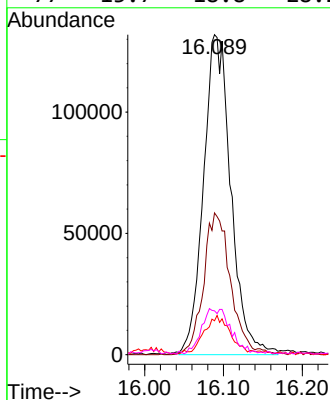
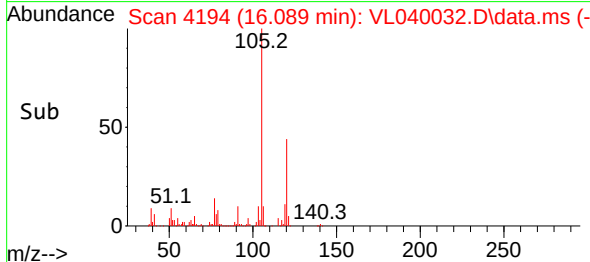
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



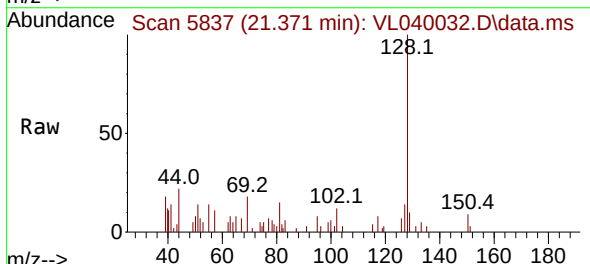
Tgt Ion:	105	Resp:	31828
Ion Ratio	Lower	Upper	
105	100		
120	44.3	39.3	58.9
91	10.6	44.2	66.4
77	13.7	18.8	28.2

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 12/20/2022
Supervised By :Mahesh Dadoda 12/20/2022



#79
Naphthalene
Concen: 0.116 ppbv m
RT: 21.371 min Scan# 5837
Delta R.T. 0.000 min
Lab File: VL040032.D
Acq: 19 Dec 2022 17:32



Tgt Ion:	128	Resp:	21586
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.0	15.0
129	9.6	8.8	13.2

