

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031623\
 Data File : VL040296.D
 Acq On : 16 Mar 2023 15:04
 Operator : SY/MD
 Sample : 01933-04 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2023
 Supervised By :Mahesh Dadoda 03/17/2023

Quant Time: Mar 17 04:14:54 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2023

QLast Update : Wed Mar 15 16:14:43 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	1040071	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2781301	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2567615	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2084305	9.694	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.732	85	36220	0.177	ppbv	97
3) Chlorodifluoromethane	2.678	51	20881	0.160	ppbv	92
9) Propene	2.706	41	75776	1.512	ppbv #	59
10) Heptane	7.584	43	50016	0.415	ppbv	94
11) Trichlorofluoromethane	3.562	101	18034	0.098	ppbv	96
13) Ethanol	3.237	45	1321751	359.688	ppbv	99
15) Acetone	3.468	43	975351	7.703	ppbv	99
20) Methylene Chloride	3.931	84	312969	5.875	ppbv	94
26) Hexane	5.214	57	228018	2.343	ppbv #	64
34) 2-Butanone	4.787	43	454646	3.312	ppbv	99
36) Benzene	6.372	78	56188	0.265	ppbv #	92
41) Tetrahydrofuran	5.562	42	113507	1.433	ppbv	99
44) 2,2,4-Trimethylpentane	7.330	57	692732	1.960	ppbv	92
50) 4-Methyl-2-Pentanone	8.195	43	100597	0.474	ppbv	98
52) Tetrachloroethene	10.623	164	45176m	0.704	ppbv	
53) Toluene	9.221	91	1381085	6.218	ppbv	98
58) Ethyl Benzene	12.089	91	578014m	1.977	ppbv	
59) m/p-Xylene	12.349	91	1918130	7.162	ppbv	95
60) o-Xylene	13.063	91	892337	3.485	ppbv	99
61) Styrene	12.905	104	27396	0.211	ppbv	88
62) Isopropylbenzene	14.031	105	67802m	0.186	ppbv	
64) n-propylbenzene	14.925	120	48113	0.539	ppbv	74
65) tert-Butylbenzene	16.108	119	122092m	0.389	ppbv	
72) 4-Ethyltoluene	15.198	105	323766	1.157	ppbv	99
73) 1,3,5-Trimethylbenzene	15.359	105	284758m	1.123	ppbv	
74) 1,2,4-Trimethylbenzene	16.111	105	1149979	3.977	ppbv #	72
79) Naphthalene	21.394	128	191824m	1.121	ppbv	

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

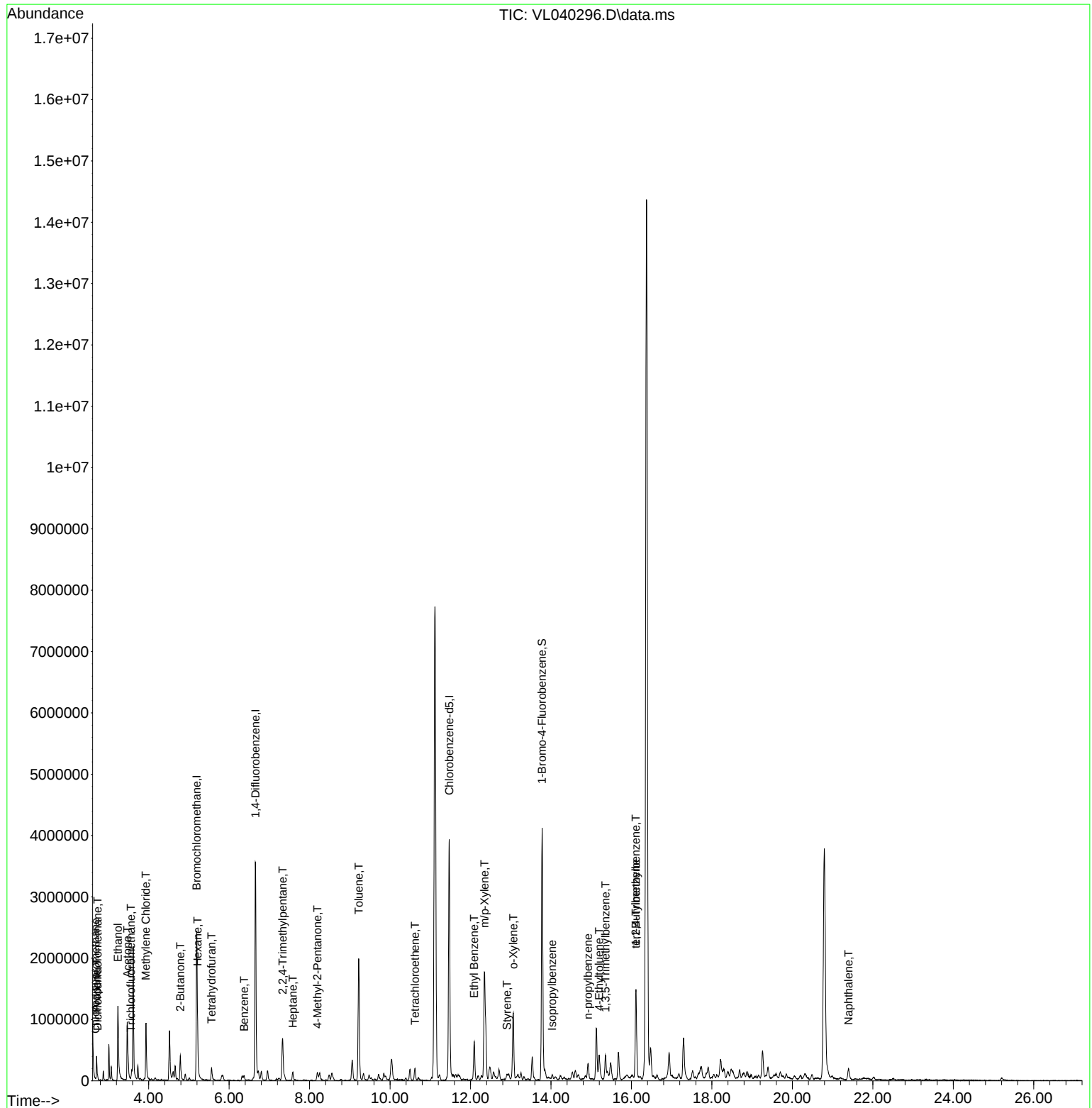
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031623\
Data File : VL040296.D
Acq On : 16 Mar 2023 15:04
Operator : SY/MD
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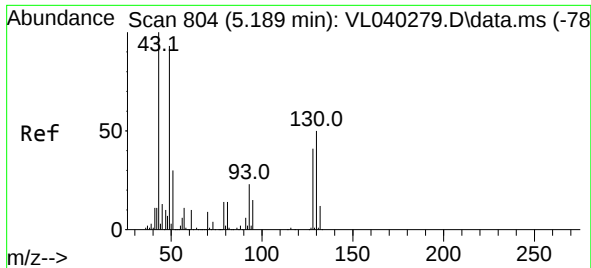
Instrument :
MSVOA_L
ClientSampleId :
SSSG-4

Quant Time: Mar 17 04:14:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Mar 15 16:14:43 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

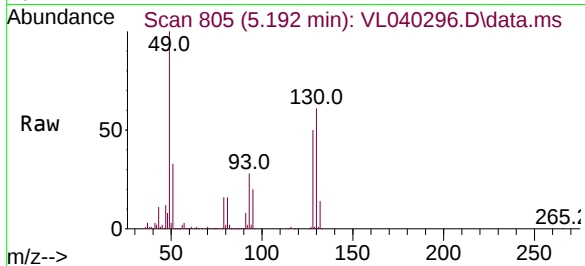
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

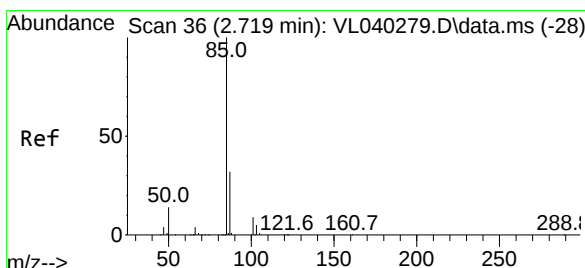
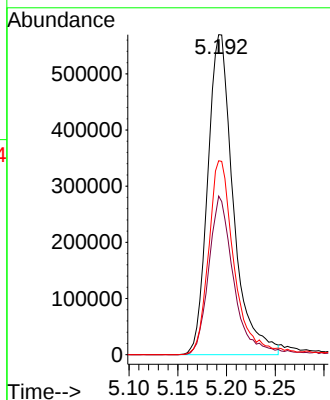
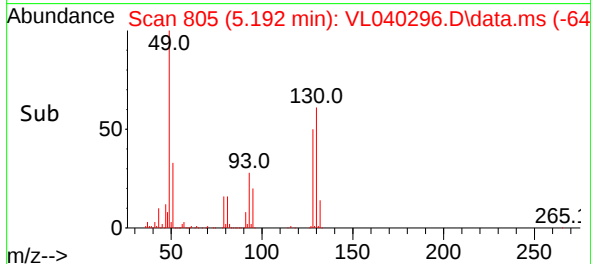
Instrument :
MSVOA_L
ClientSampleId :
SSSG-4



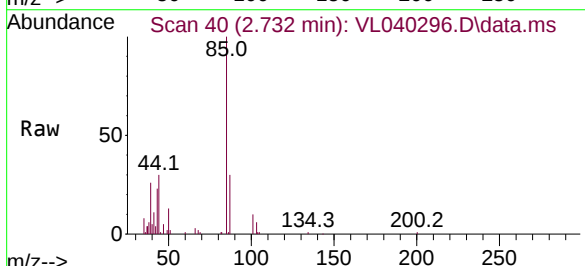
Tgt Ion: 49 Resp: 104007
Ion Ratio Lower Upper
49 100
128 49.8 22.4 67.3
130 62.1 28.7 86.1

Manual Integrations
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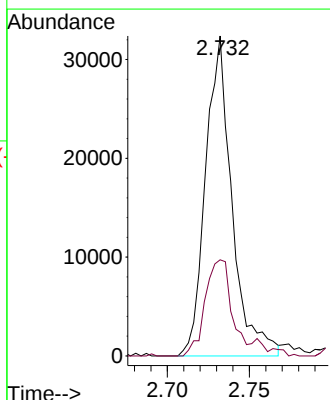
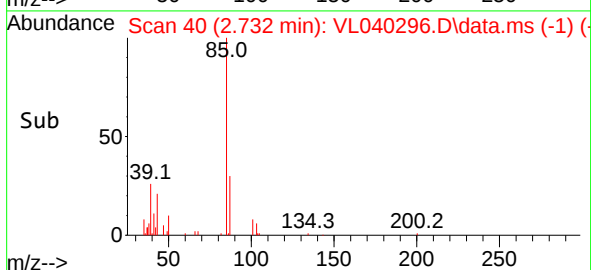
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023

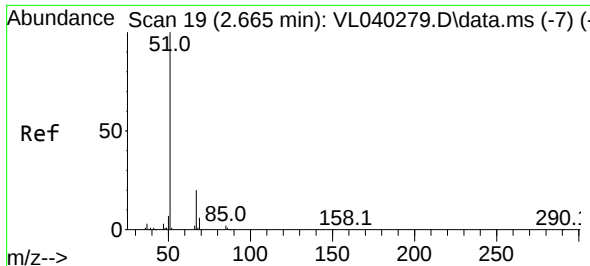


#2
Dichlorodifluoromethane
Concen: 0.177 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.013 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04



Tgt Ion: 85 Resp: 36220
Ion Ratio Lower Upper
85 100
87 30.1 25.5 38.3





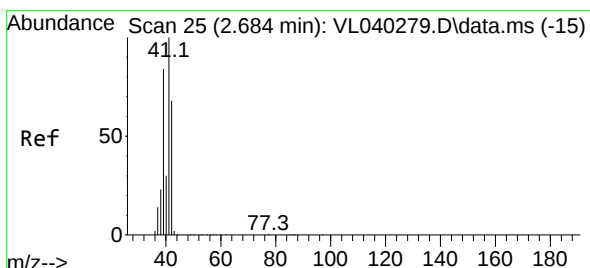
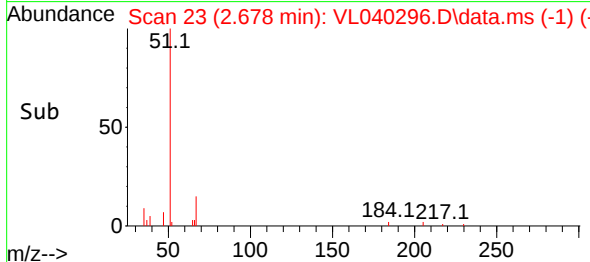
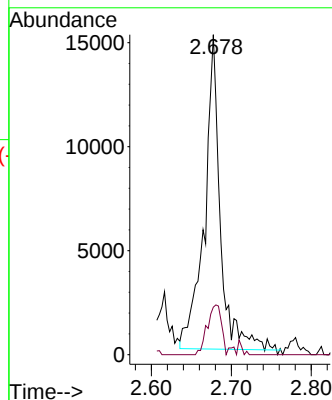
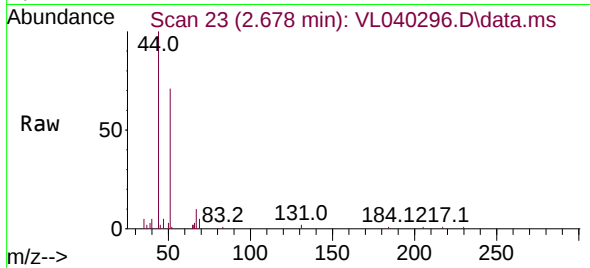
#3
Chlorodifluoromethane
Concen: 0.160 ppbv
RT: 2.678 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

Instrument :
MSVOA_L
ClientSampleId :
SSSG-4

Tgt Ion: 51 Resp: 2088
Ion Ratio Lower Upper
51 100
67 16.2 16.0 24.0

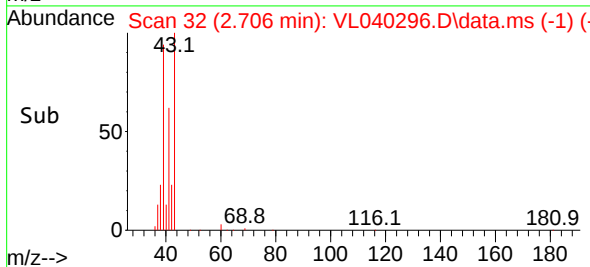
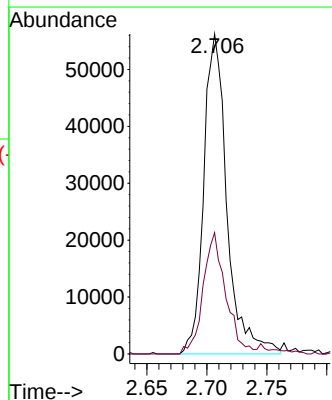
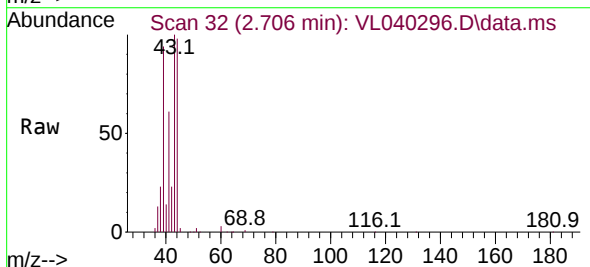
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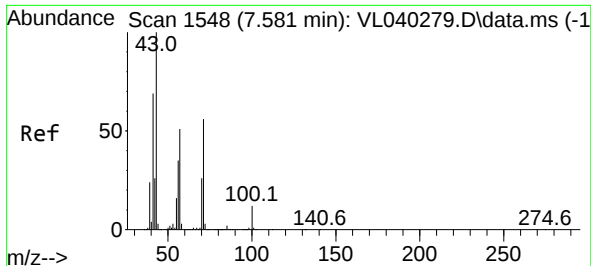
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#9
Propene
Concen: 1.512 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.022 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

Tgt Ion: 41 Resp: 75776
Ion Ratio Lower Upper
41 100
42 39.2 59.0 88.4#





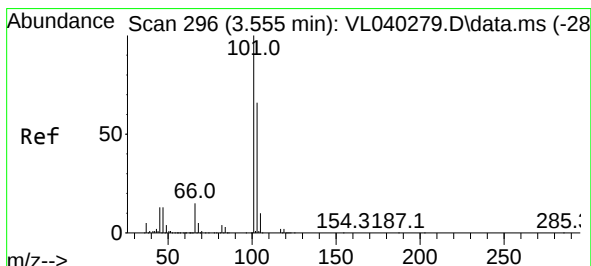
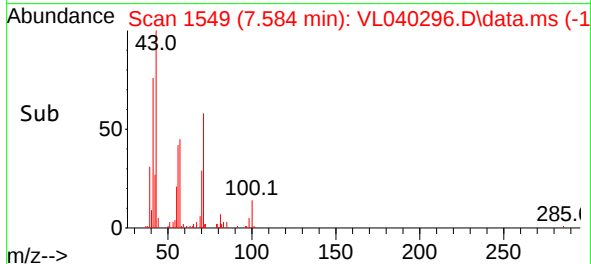
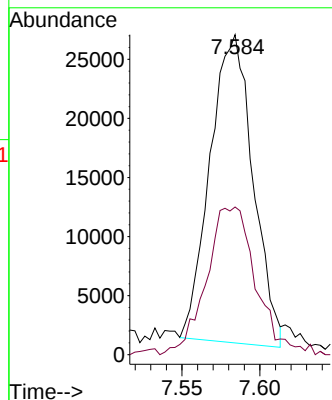
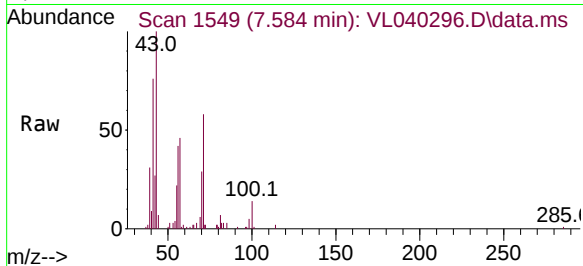
#10
Heptane
Concen: 0.415 ppbv
RT: 7.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

Instrument :
MSVOA_L
ClientSampleId :
SSSG-4

Tgt Ion: 43 Resp: 50010
Ion Ratio Lower Upper
43 100
57 56.4 41.7 62.5

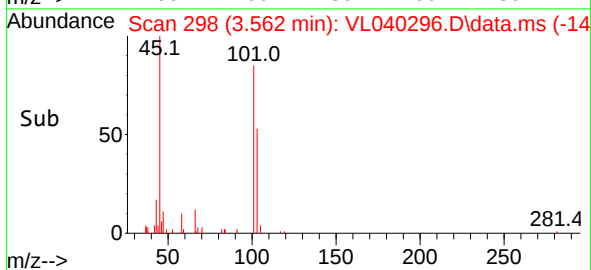
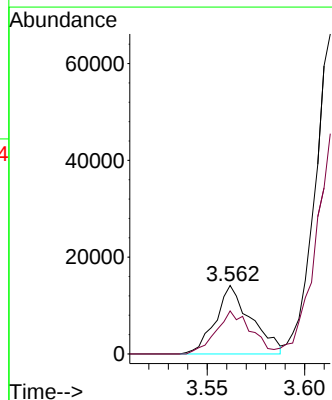
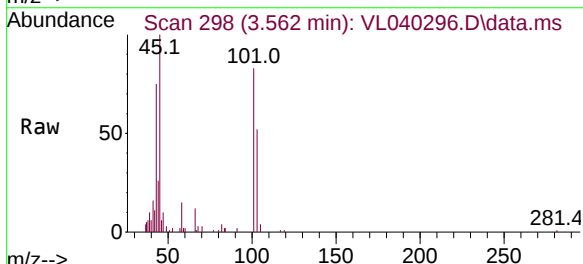
Manual Integrations
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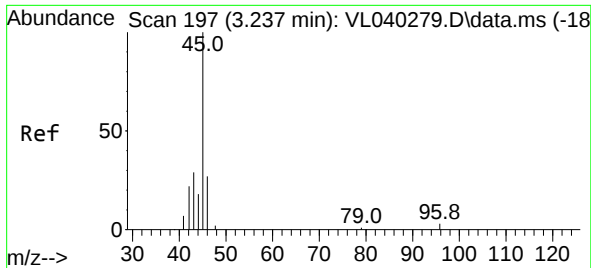
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#11
Trichlorofluoromethane
Concen: 0.098 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.007 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

Tgt Ion:101 Resp: 18034
Ion Ratio Lower Upper
101 100
103 62.9 53.1 79.7





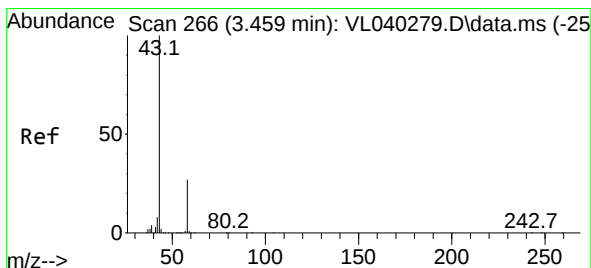
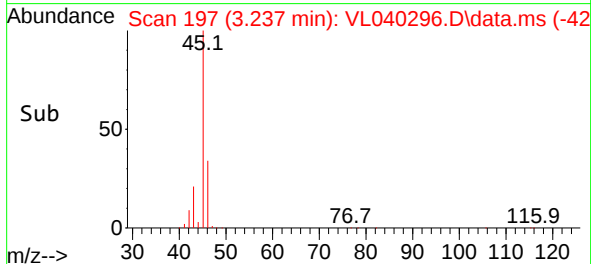
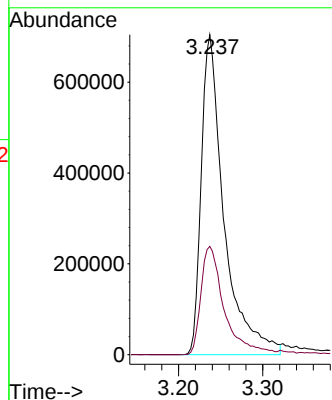
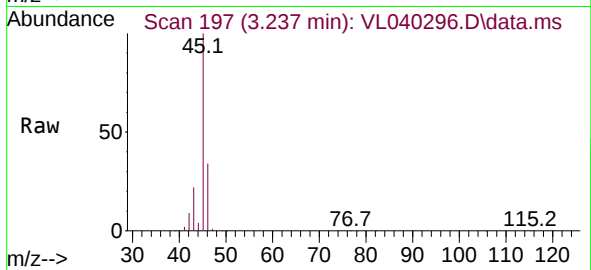
#13
Ethanol
Concen: 359.688 ppbv
RT: 3.237 min Scan# 197
Delta R.T. -0.000 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

Instrument : MSVOA_L
ClientSampleId : SSSG-4

Tgt Ion: 45 Resp: 132175
Ion Ratio Lower Upper
45 100
46 36.8 15.0 60.2

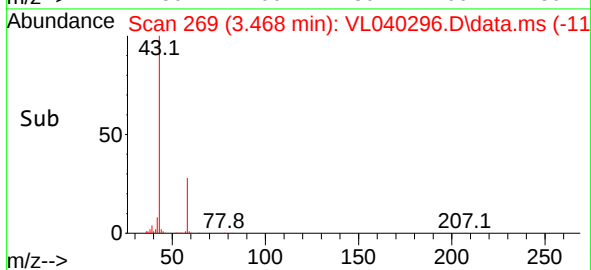
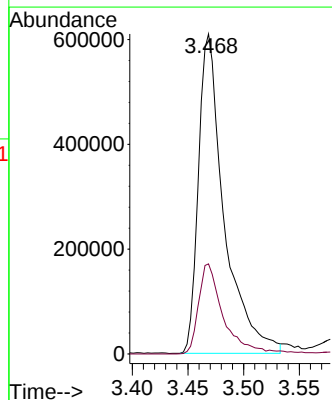
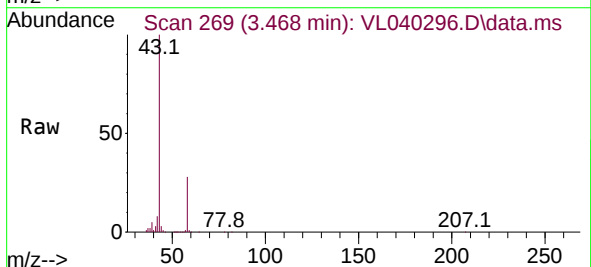
Manual Integrations
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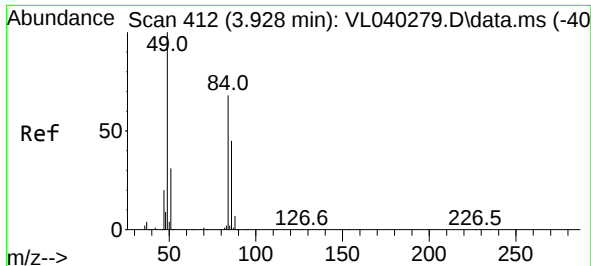
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#15
Acetone
Concen: 7.703 ppbv
RT: 3.468 min Scan# 269
Delta R.T. 0.009 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

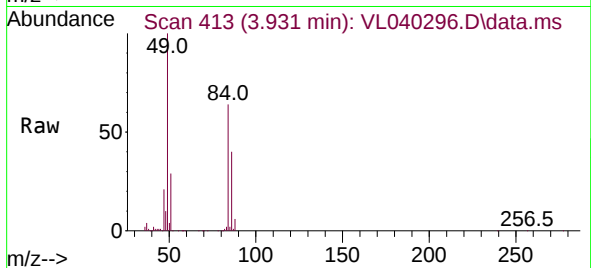
Tgt Ion: 43 Resp: 975351
Ion Ratio Lower Upper
43 100
58 27.6 21.8 32.8





#20
Methylene Chloride
Concen: 5.875 ppbv
RT: 3.931 min Scan# 412
Delta R.T. 0.003 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

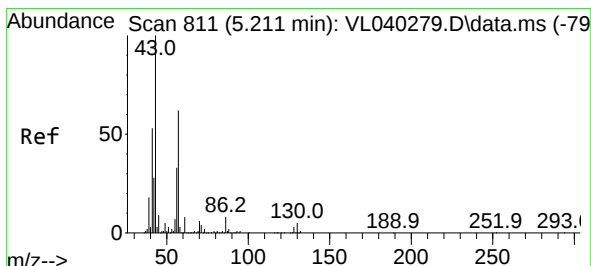
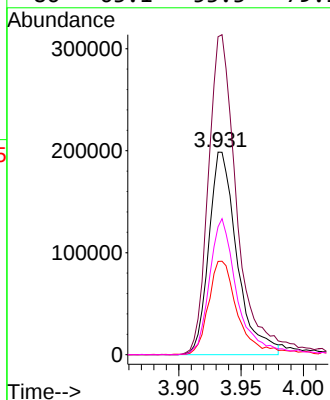
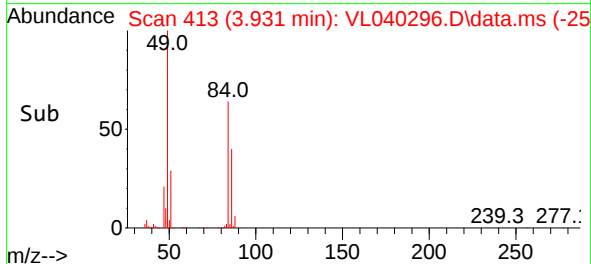
Instrument :
MSVOA_L
ClientSampleId :
SSSG-4



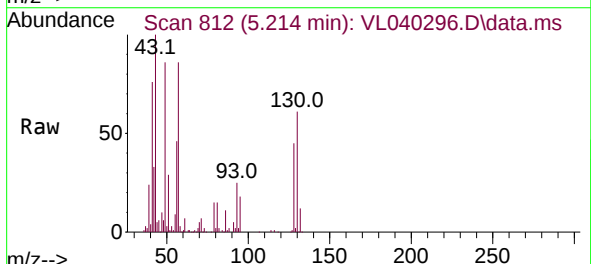
Tgt Ion: 84 Resp: 312969
Ion Ratio Lower Upper
84 100
49 156.9 117.5 176.3
51 45.8 36.9 55.3
86 63.1 53.3 79.9

Manual Integrations
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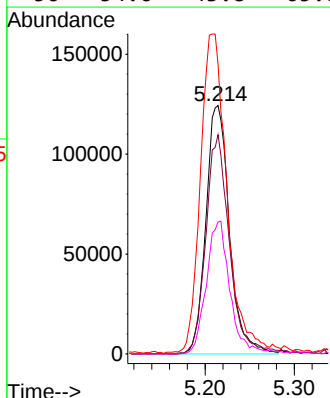
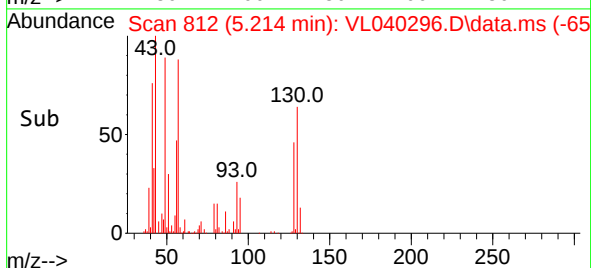
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023

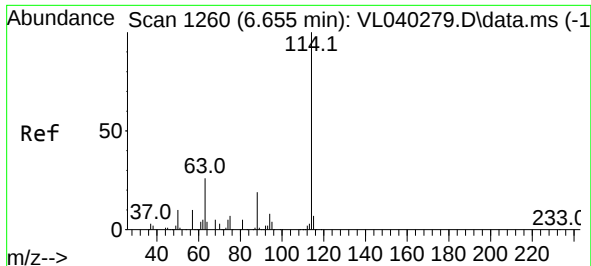


#26
Hexane
Concen: 2.343 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04



Tgt Ion: 57 Resp: 228018
Ion Ratio Lower Upper
57 100
41 89.8 73.5 110.3
43 146.7 196.3 294.5#
56 54.6 43.8 65.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 114

Delta R.T. -0.000 min

Lab File: VL040296.D

Acq: 16 Mar 2023 15:04

Instrument :

MSVOA_L

ClientSampleId :

SSSG-4

Tgt Ion:114 Resp: 278130

Ion Ratio Lower Upper

114 100

63 24.7 21.2 31.8

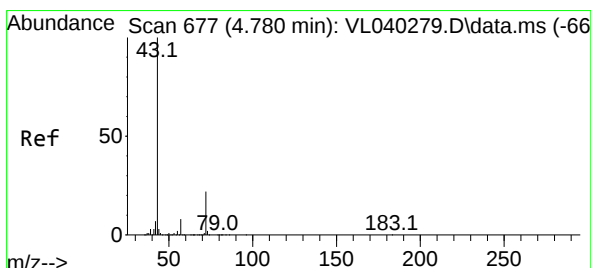
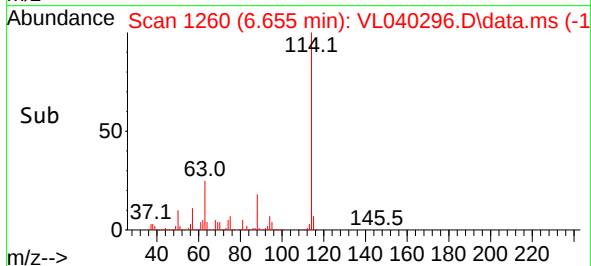
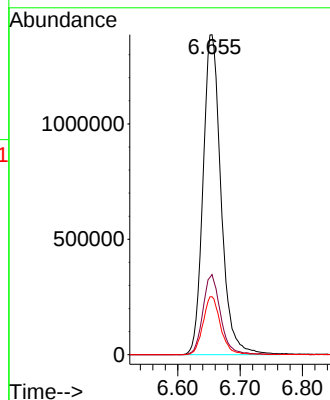
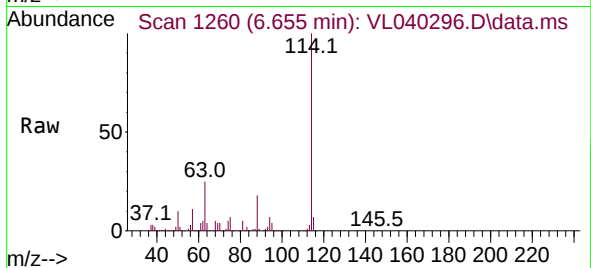
88 17.8 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2023

Supervised By :Mahesh Dadoda 03/17/2023



#34

2-Butanone

Concen: 3.312 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.007 min

Lab File: VL040296.D

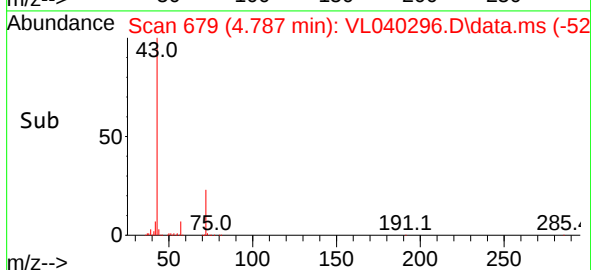
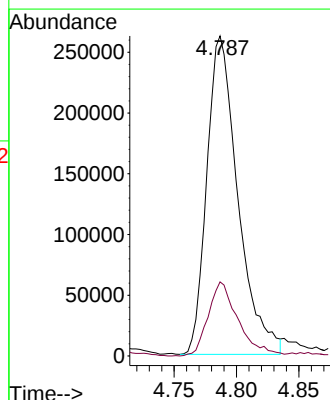
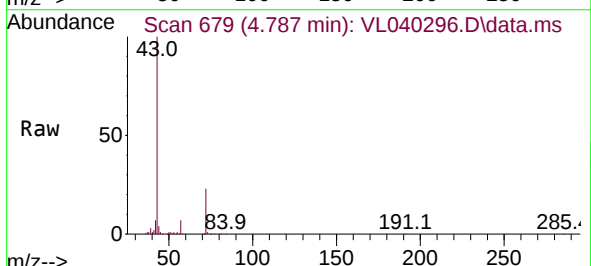
Acq: 16 Mar 2023 15:04

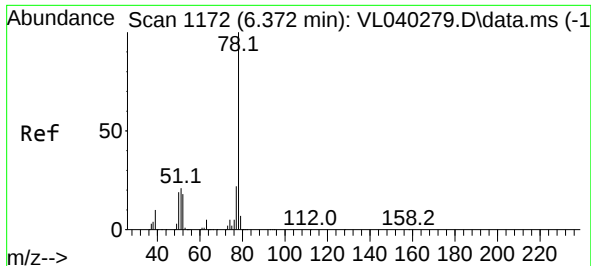
Tgt Ion: 43 Resp: 454646

Ion Ratio Lower Upper

43 100

72 22.3 18.3 27.5





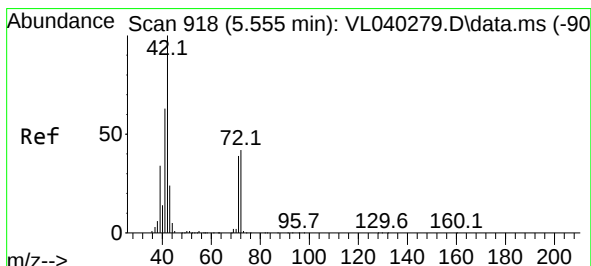
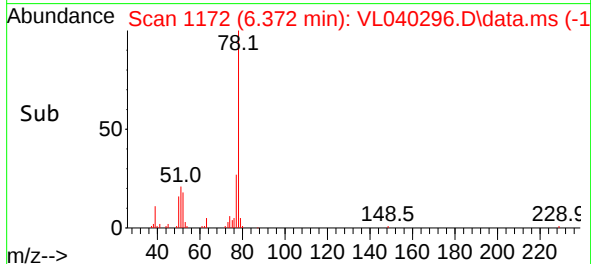
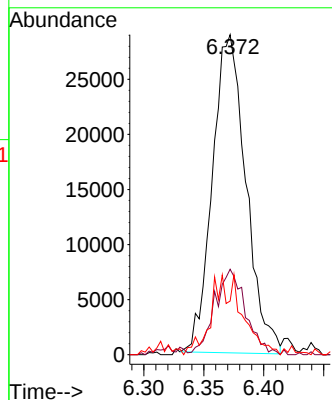
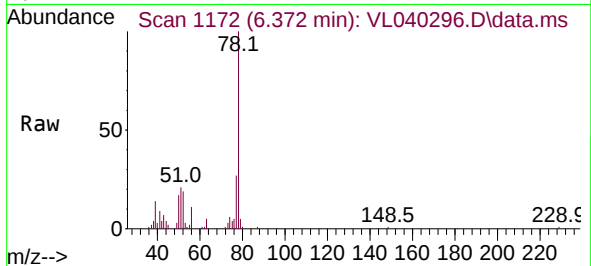
#36
Benzene
Concen: 0.265 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

Instrument :
MSVOA_L
ClientSampleId :
SSSG-4

Tgt Ion: 78 Resp: 5618
Ion Ratio Lower Upper
78 100
77 26.9 17.8 26.8
50 16.9 15.4 23.2

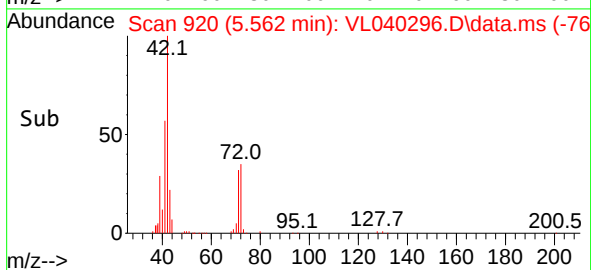
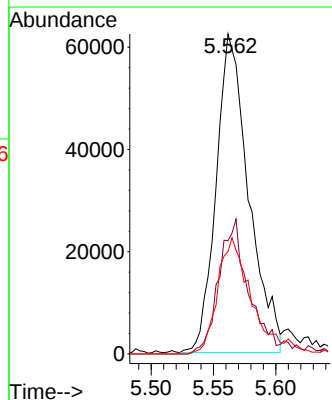
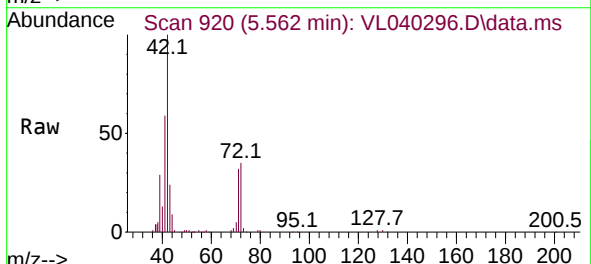
Manual Integrations
APPROVED

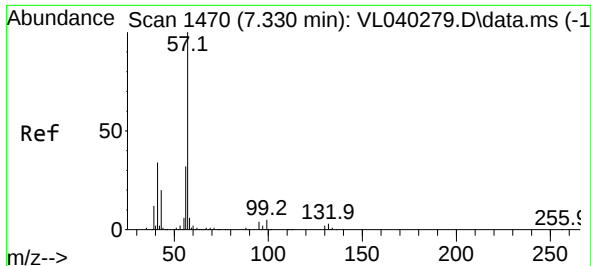
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#41
Tetrahydrofuran
Concen: 1.433 ppbv
RT: 5.562 min Scan# 920
Delta R.T. 0.007 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

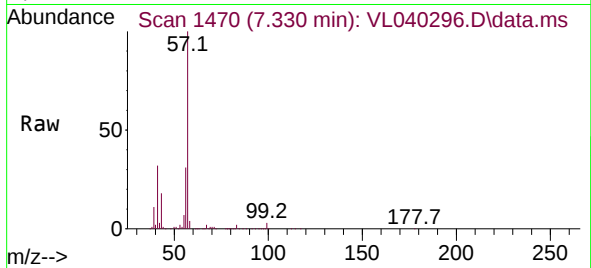
Tgt Ion: 42 Resp: 113507
Ion Ratio Lower Upper
42 100
72 41.7 32.6 49.0
71 39.1 31.0 46.4





#44
2,2,4-Trimethylpentane
Concen: 1.960 ppbv
RT: 7.330 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

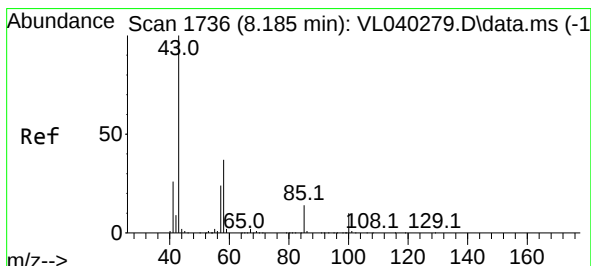
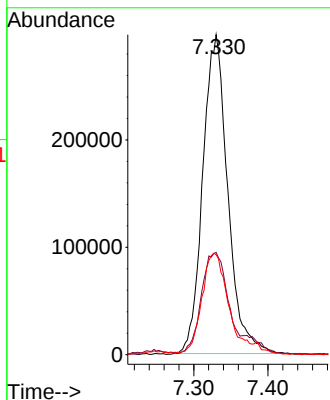
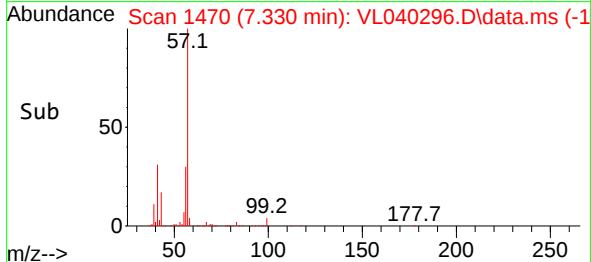
Instrument :
MSVOA_L
ClientSampleId :
SSSG-4



Tgt Ion: 57 Resp: 692732
Ion Ratio Lower Upper
57 100
41 38.3 26.8 40.2
56 35.7 25.0 37.6

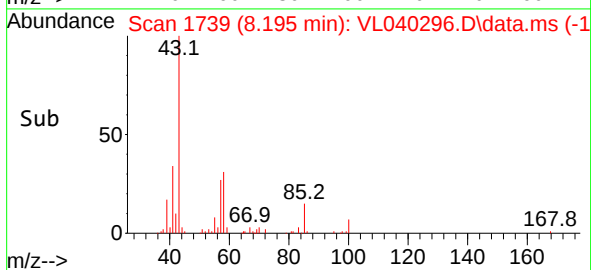
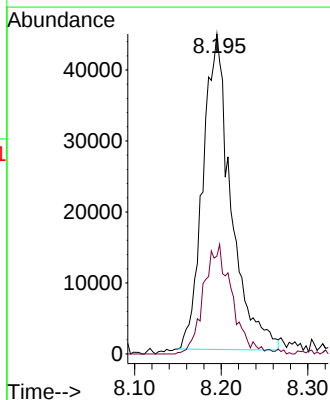
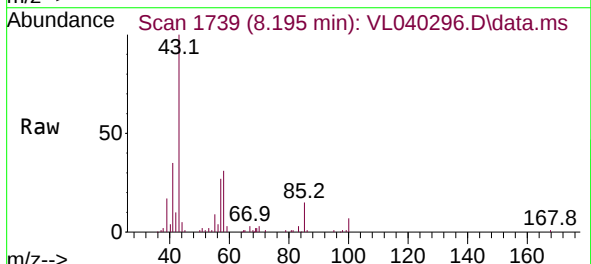
Manual Integrations
APPROVED

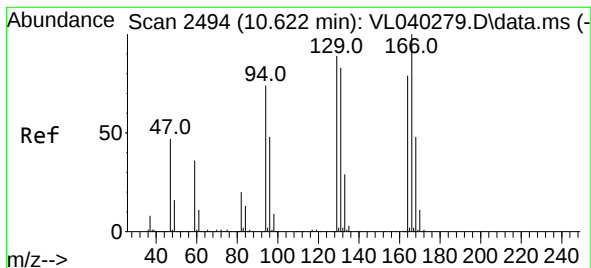
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#50
4-Methyl-2-Pentanone
Concen: 0.474 ppbv
RT: 8.195 min Scan# 1739
Delta R.T. 0.010 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

Tgt Ion: 43 Resp: 100597
Ion Ratio Lower Upper
43 100
58 35.2 29.2 43.8





#52

Tetrachloroethene

Concen: 0.704 ppbv m

RT: 10.623 min Scan# 2494

Delta R.T. 0.001 min

Lab File: VL040296.D

Acq: 16 Mar 2023 15:04

Instrument :

MSVOA_L

ClientSampleId :

SSSG-4

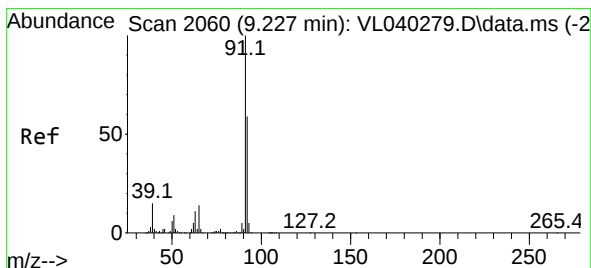
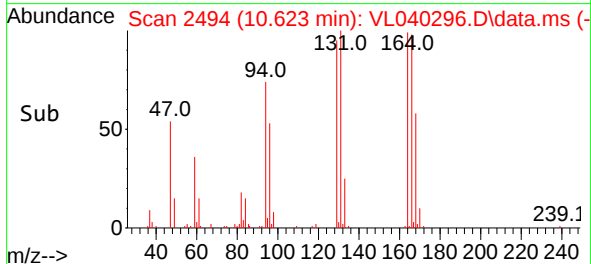
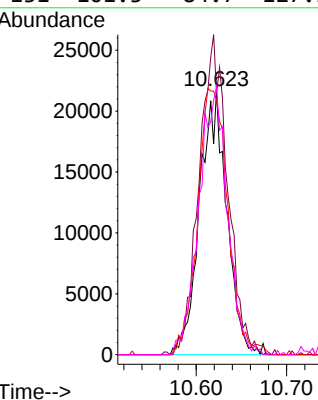
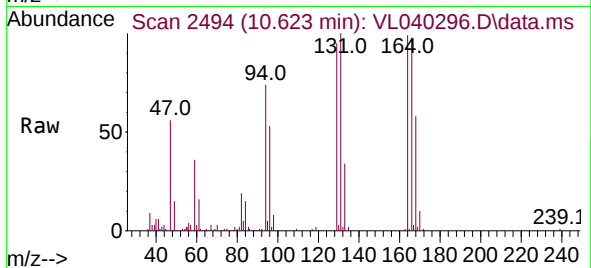
Tgt Ion:164 Resp: 45170

Ion	Ratio	Lower	Upper
164	100		
166	98.7	101.8	152.6
129	96.4	90.2	135.2
131	101.3	84.7	127.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#53

Toluene

Concen: 6.218 ppbv

RT: 9.221 min Scan# 2058

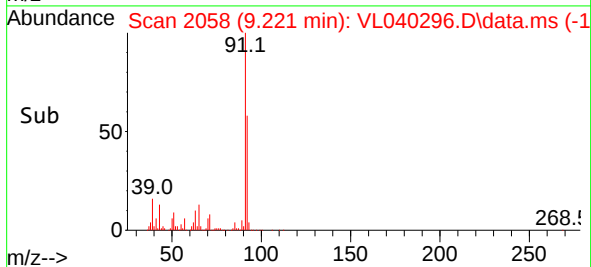
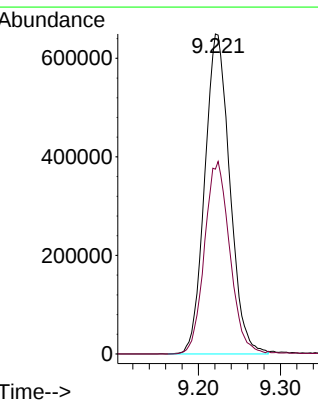
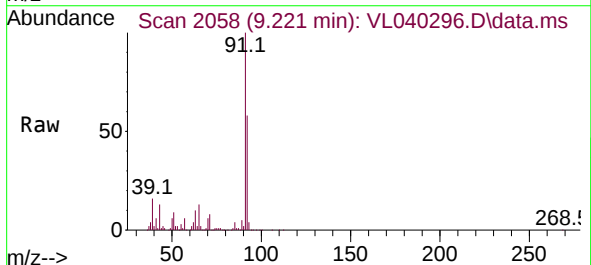
Delta R.T. -0.006 min

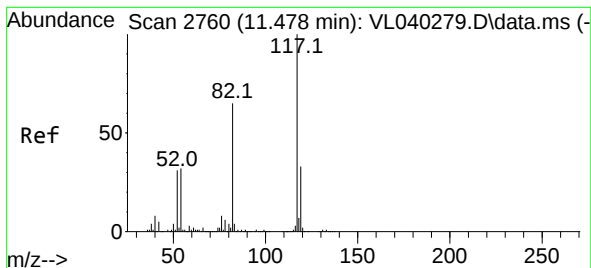
Lab File: VL040296.D

Acq: 16 Mar 2023 15:04

Tgt Ion: 91 Resp: 1381085

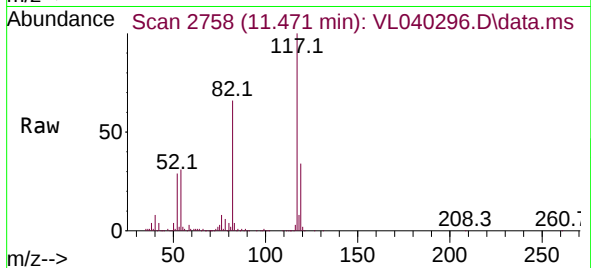
Ion	Ratio	Lower	Upper
91	100		
92	61.2	48.0	72.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

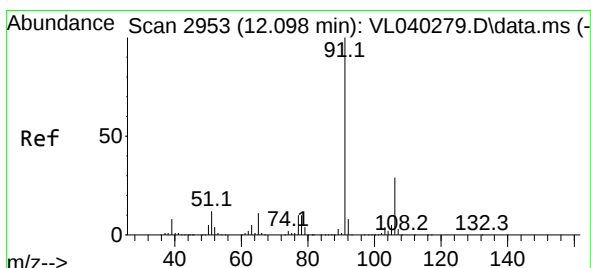
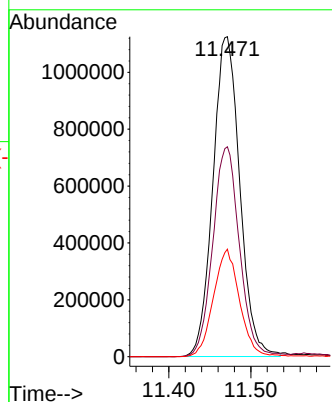
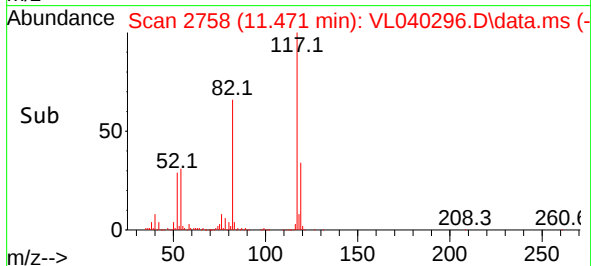
Instrument :
MSVOA_L
ClientSampleId :
SSSG-4



Tgt Ion:117 Resp: 256761
Ion Ratio Lower Upper
117 100
82 65.2 51.4 77.2
119 32.9 24.0 36.0

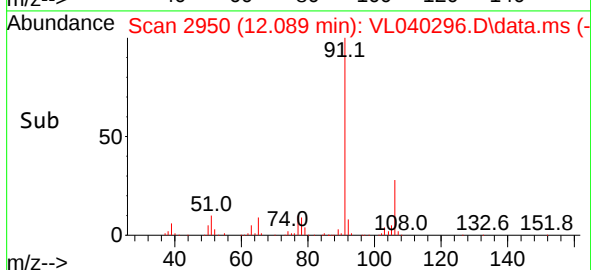
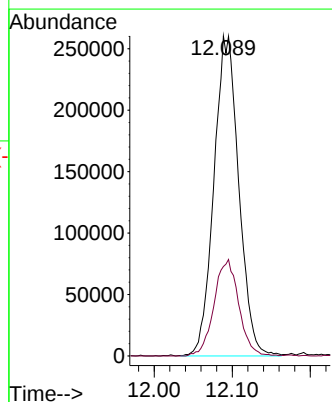
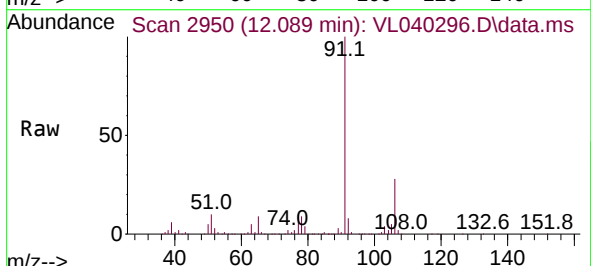
Manual Integrations
APPROVED

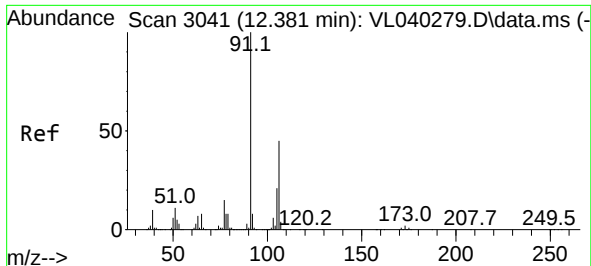
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#58
Ethyl Benzene
Concen: 1.977 ppbv m
RT: 12.089 min Scan# 2950
Delta R.T. -0.009 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

Tgt Ion: 91 Resp: 578014
Ion Ratio Lower Upper
91 100
106 28.0 23.4 35.2





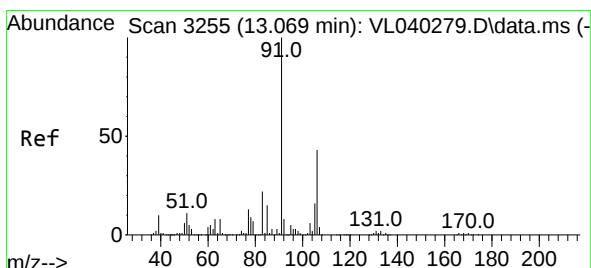
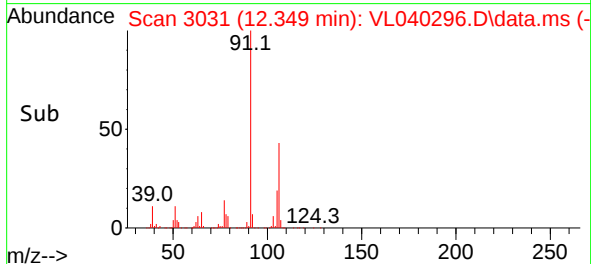
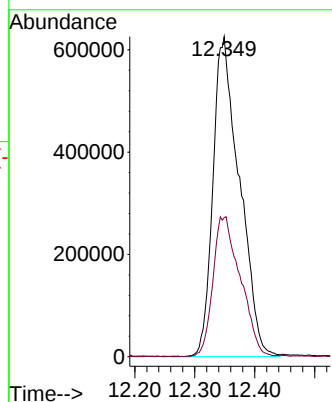
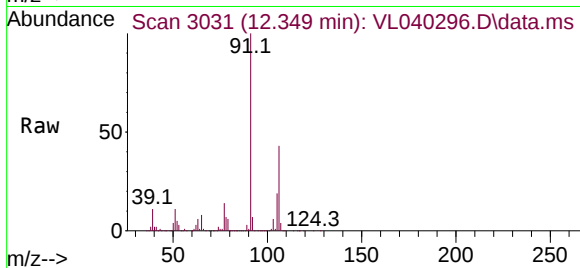
#59
m/p-Xylene
Concen: 7.162 ppbv
RT: 12.349 min Scan# 3041
Delta R.T. -0.032 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

Instrument :
MSVOA_L
ClientSampleId :
SSSG-4

Tgt Ion: 91 Resp: 1918130
Ion Ratio Lower Upper
91 100
106 45.7 34.0 51.0

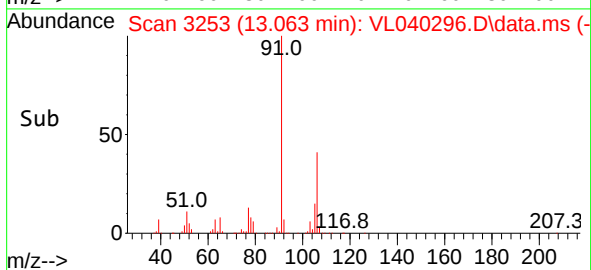
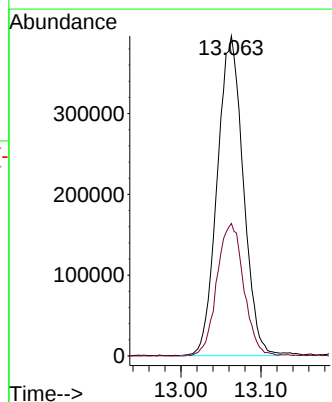
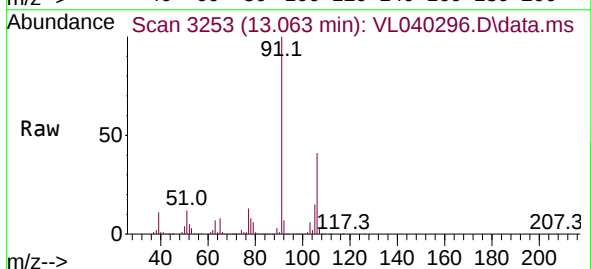
Manual Integrations
APPROVED

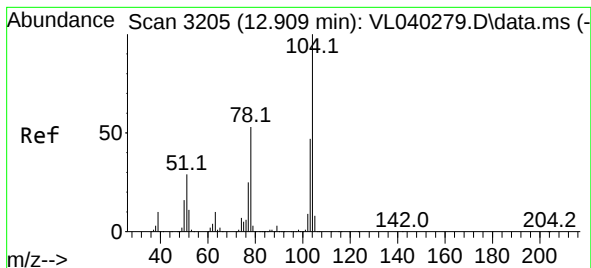
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#60
o-Xylene
Concen: 3.485 ppbv
RT: 13.063 min Scan# 3253
Delta R.T. -0.006 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

Tgt Ion: 91 Resp: 892337
Ion Ratio Lower Upper
91 100
106 43.0 21.7 65.1





#61

Styrene

Concen: 0.211 ppbv

RT: 12.905 min Scan# 31

Delta R.T. -0.004 min

Lab File: VL040296.D

Acq: 16 Mar 2023 15:04

Instrument :

MSVOA_L

ClientSampleId :

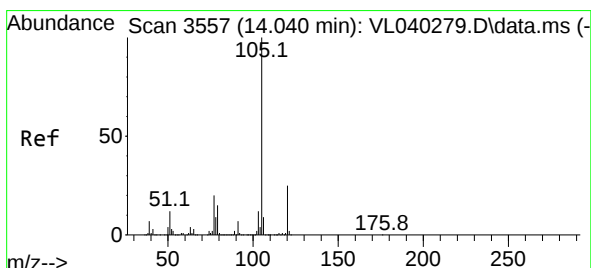
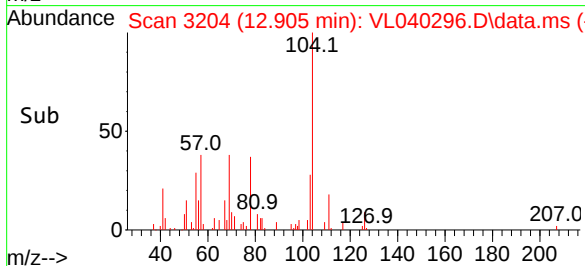
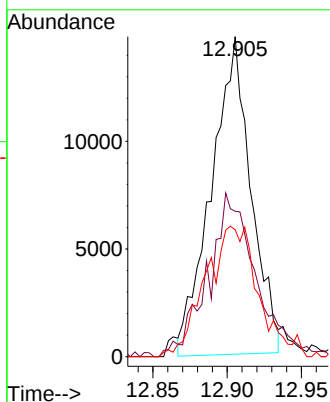
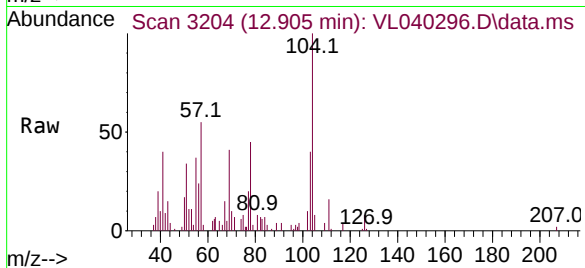
SSSG-4

Tgt Ion:104 Resp: 27390
 Ion Ratio Lower Upper
 104 100
 78 62.4 43.7 65.5
 103 55.6 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2023
 Supervised By :Mahesh Dadoda 03/17/2023



#62

Isopropylbenzene

Concen: 0.186 ppbv m

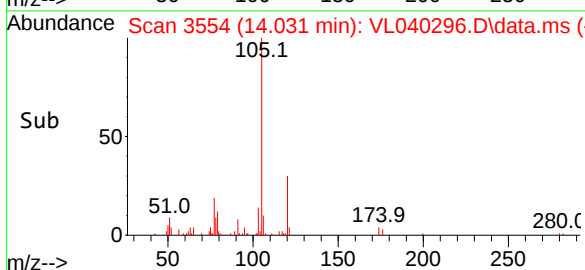
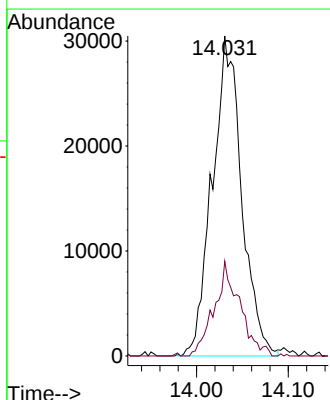
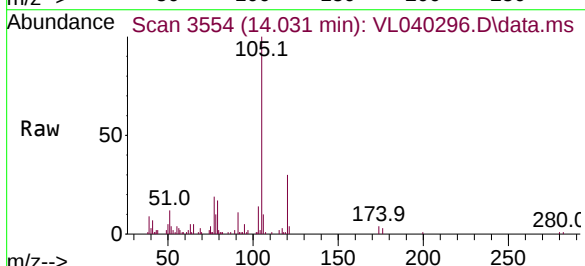
RT: 14.031 min Scan# 3554

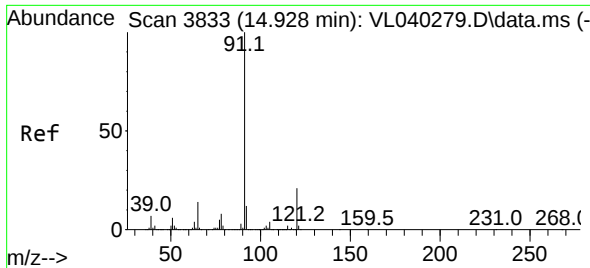
Delta R.T. -0.009 min

Lab File: VL040296.D

Acq: 16 Mar 2023 15:04

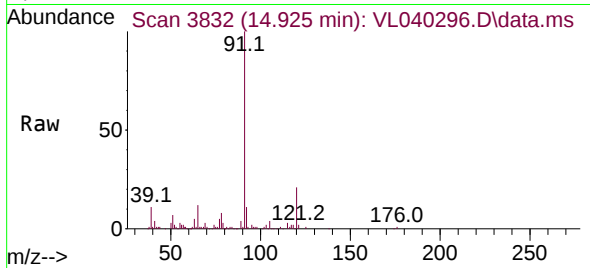
Tgt Ion:105 Resp: 67802
 Ion Ratio Lower Upper
 105 100
 120 25.9 19.9 29.9





#64
n-propylbenzene
Concen: 0.539 ppbv
RT: 14.925 min Scan# 3832
Delta R.T. -0.003 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

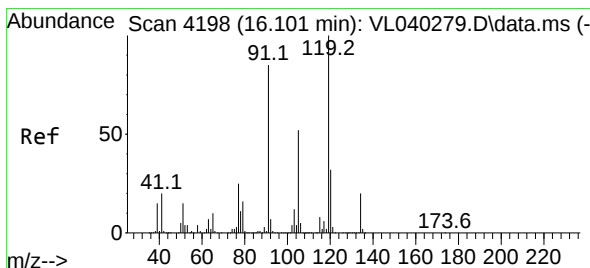
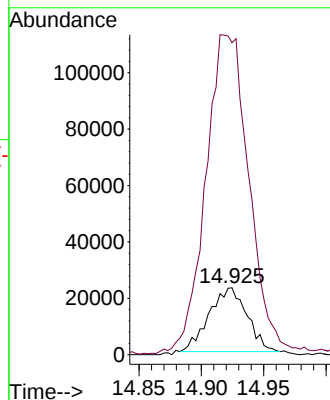
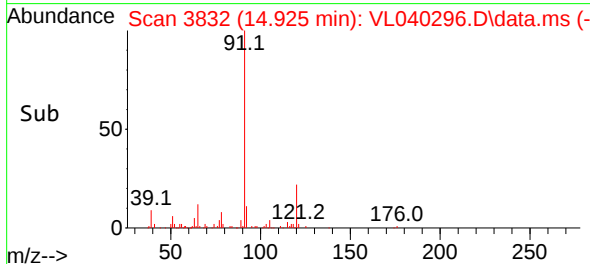
Instrument :
MSVOA_L
ClientSampleId :
SSSG-4



Tgt Ion:120 Resp: 4811
Ion Ratio Lower Upper
120 100
91 569.6 399.0 598.6

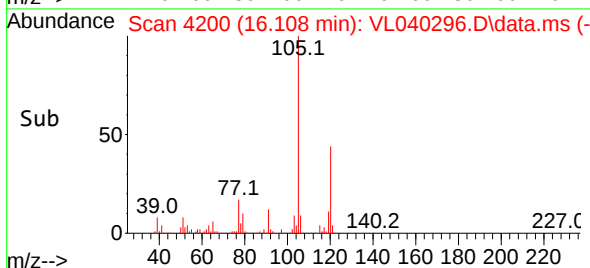
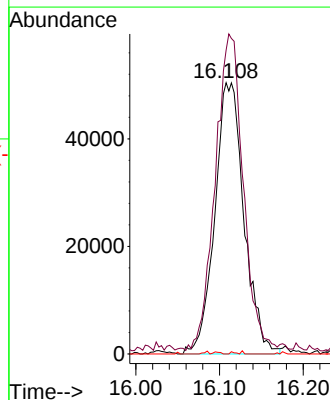
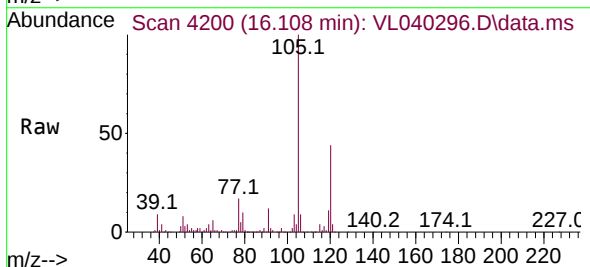
Manual Integrations
APPROVED

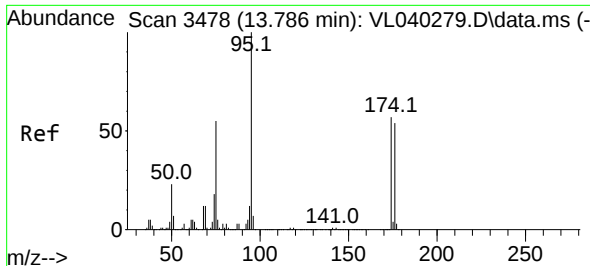
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023



#65
tert-Butylbenzene
Concen: 0.389 ppbv m
RT: 16.108 min Scan# 4200
Delta R.T. 0.007 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

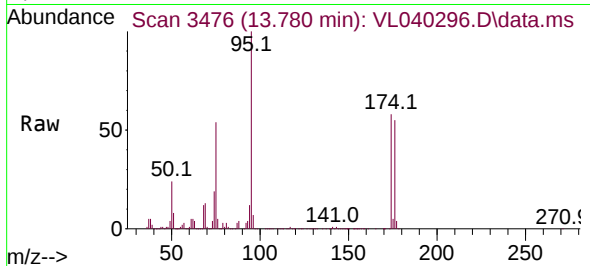
Tgt Ion:119 Resp: 122092
Ion Ratio Lower Upper
119 100
91 112.1 69.4 104.2#
134 0.0 15.8 23.6#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.694 ppbv
RT: 13.780 min Scan# 3478
Delta R.T. -0.006 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

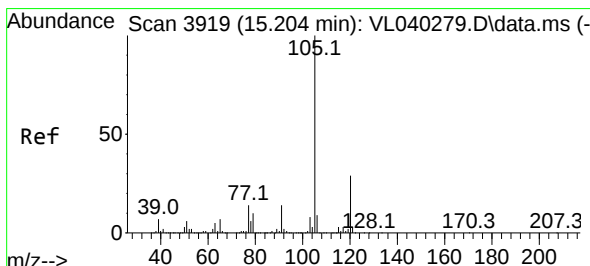
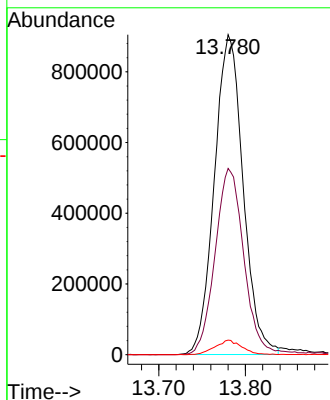
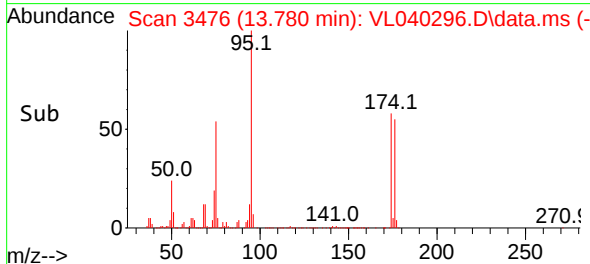
Instrument :
MSVOA_L
ClientSampleId :
SSSG-4



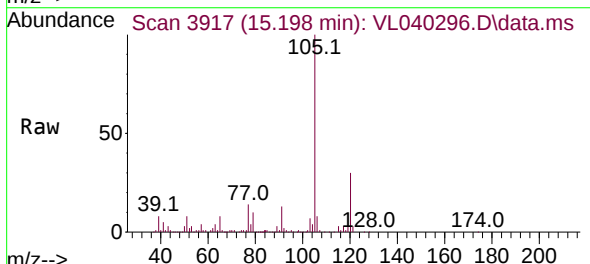
Tgt Ion: 95 Resp: 208430
Ion Ratio Lower Upper
95 100
174 59.4 47.0 70.6
175 4.3 3.4 5.2

Manual Integrations
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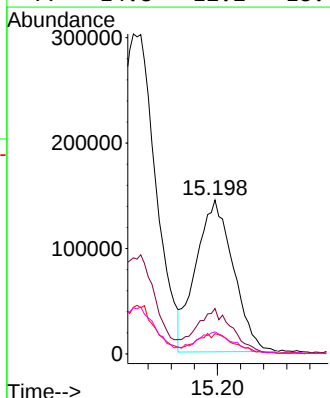
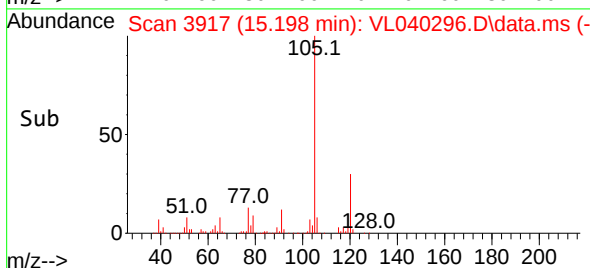
Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023

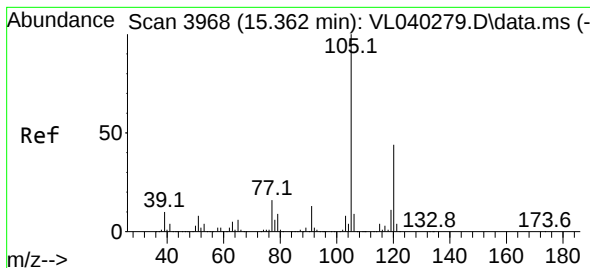


#72
4-Ethyltoluene
Concen: 1.157 ppbv
RT: 15.198 min Scan# 3917
Delta R.T. -0.006 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04



Tgt Ion:105 Resp: 323766
Ion Ratio Lower Upper
105 100
120 29.4 23.7 35.5
91 14.1 11.6 17.4
77 14.8 12.2 18.4





#73

1,3,5-Trimethylbenzene

Concen: 1.123 ppbv m

RT: 15.359 min Scan# 3967

Delta R.T. -0.003 min

Lab File: VL040296.D

Acq: 16 Mar 2023 15:04

Instrument :

MSVOA_L

ClientSampleId :

SSSG-4

Tgt Ion:105 Resp: 284758

Ion Ratio Lower Upper

105 100

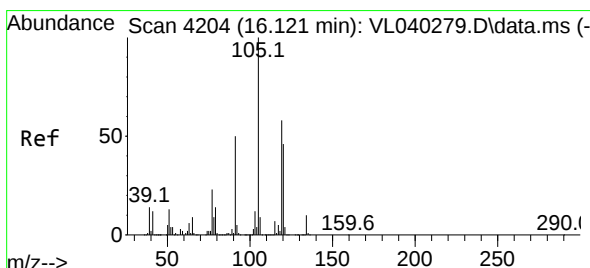
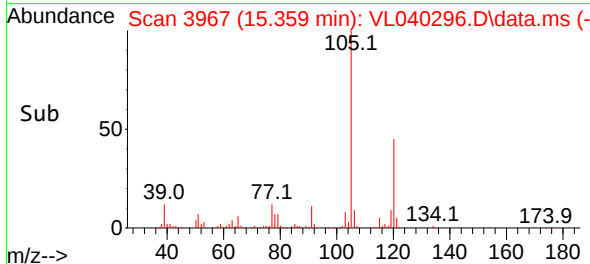
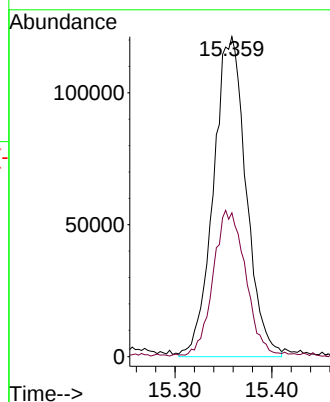
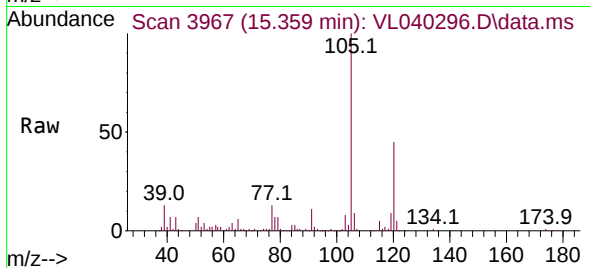
120 45.0 34.9 52.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2023

Supervised By :Mahesh Dadoda 03/17/2023



#74

1,2,4-Trimethylbenzene

Concen: 3.977 ppbv

RT: 16.111 min Scan# 4201

Delta R.T. -0.010 min

Lab File: VL040296.D

Acq: 16 Mar 2023 15:04

Tgt Ion:105 Resp: 1149979

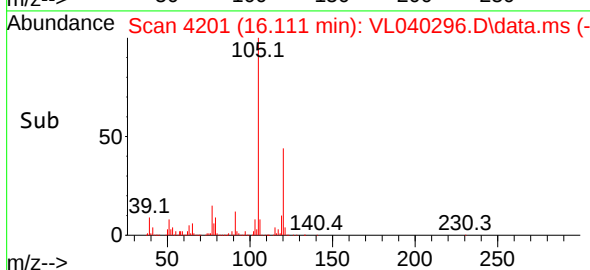
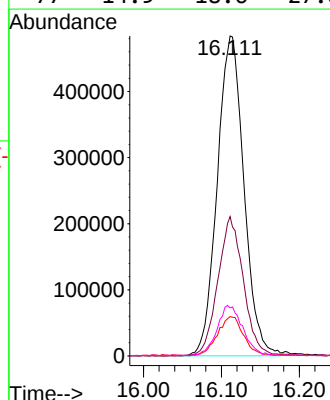
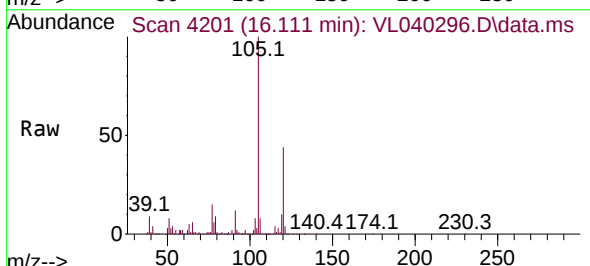
Ion Ratio Lower Upper

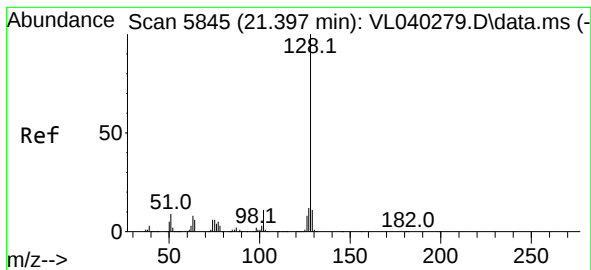
105 100

120 43.5 36.6 54.8

91 12.2 39.9 59.9#

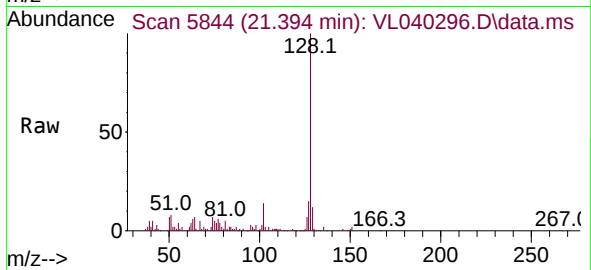
77 14.9 18.6 27.8#





#79
Naphthalene
Concen: 1.121 ppbv m
RT: 21.394 min Scan# 5845
Delta R.T. -0.003 min
Lab File: VL040296.D
Acq: 16 Mar 2023 15:04

Instrument :
MSVOA_L
ClientSampleId :
SSSG-4



Tgt Ion:128 Resp: 191824
Ion Ratio Lower Upper
128 100
127 15.1 9.6 14.4
129 11.6 8.6 13.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2023
Supervised By :Mahesh Dadoda 03/17/2023

