

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022123\
 Data File : VL040213.D
 Acq On : 22 Feb 2023 8:48
 Operator : SY/MD
 Sample : 01626-05DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-21DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023
 Supervised By :Mahesh Dadoda 02/23/2023

Quant Time: Feb 22 09:53:23 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 22 03:17:31 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	767949	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	1993812	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	1801684	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1515051	10.226	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	34732	0.243	ppbv	95
3) Chlorodifluoromethane	2.649	51	191158m	2.084	ppbv	
4) Chloromethane	2.803	50	27134	0.471	ppbv	94
9) Propene	2.690	41	235168m	6.289	ppbv	
10) Heptane	7.571	43	15501	0.174	ppbv	100
11) Trichlorofluoromethane	3.549	101	31033	0.242	ppbv	89
13) Ethanol	3.227	45	2790116	810.474	ppbv	94
15) Acetone	3.452	43	1222554	13.223	ppbv	98
17) tert-Butyl alcohol	3.877	59	14834m	0.176	ppbv	
19) Isopropyl Alcohol	3.565	45	2201772	50.097	ppbv #	96
20) Methylene Chloride	3.919	84	274550	5.704	ppbv	96
25) Ethyl Acetate	5.198	43	188945	1.099	ppbv #	88
26) Hexane	5.198	57	182742m	2.477	ppbv	
30) Cyclohexane	6.591	84	6116m	0.106	ppbv	
34) 2-Butanone	4.780	43	41629	0.423	ppbv	92
35) Carbon Tetrachloride	6.481	117	8742m	0.074	ppbv	
36) Benzene	6.356	78	129622	0.835	ppbv	97
44) 2,2,4-Trimethylpentane	7.314	57	67414	0.260	ppbv #	78
52) Tetrachloroethene	10.616	164	1790m	0.037	ppbv	
53) Toluene	9.211	91	293655	1.767	ppbv	97
58) Ethyl Benzene	12.082	91	42873	0.196	ppbv	99
59) m/p-Xylene	12.339	91	114558	0.591	ppbv	97
60) o-Xylene	13.057	91	41774m	0.224	ppbv	

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

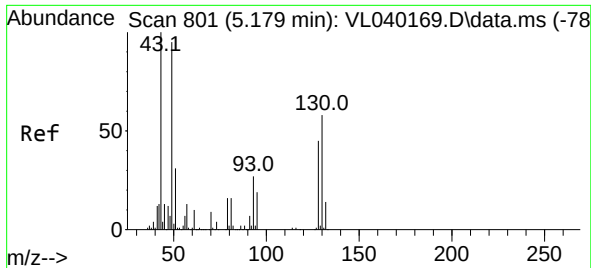
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023

Abundance

TIC: VL040213.D\data.ms

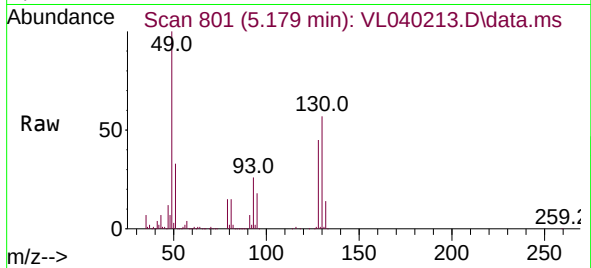
Time-->

Retention Time (min)	Chemical Name
0.5	Chloroethane
1.0	Chloroethane
1.5	Chloroethane
2.0	Chloroethane
2.5	Chloroethane
3.0	Chloroethane
3.5	Chloroethane
4.0	Chloroethane
4.5	Chloroethane
5.0	Chloroethane
5.5	Chloroethane
6.0	Chloroethane
6.5	Chloroethane
7.0	Chloroethane
7.5	Chloroethane
8.0	Chloroethane
8.5	Chloroethane
9.0	Chloroethane
9.5	Chloroethane
10.0	Chloroethane
10.5	Chloroethane
11.0	Chloroethane
11.5	Chloroethane
12.0	Chloroethane
12.5	Chloroethane
13.0	Chloroethane
13.5	Chloroethane
14.0	Chloroethane
14.5	Chloroethane
15.0	Chloroethane
15.5	Chloroethane
16.0	Chloroethane
16.5	Chloroethane
17.0	Chloroethane
17.5	Chloroethane
18.0	Chloroethane
18.5	Chloroethane
19.0	Chloroethane
19.5	Chloroethane
20.0	Chloroethane
20.5	Chloroethane
21.0	Chloroethane
21.5	Chloroethane
22.0	Chloroethane
22.5	Chloroethane
23.0	Chloroethane
23.5	Chloroethane
24.0	Chloroethane
24.5	Chloroethane
25.0	Chloroethane
25.5	Chloroethane
26.0	Chloroethane



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.179 min Scan# 80
Delta R.T. 0.000 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

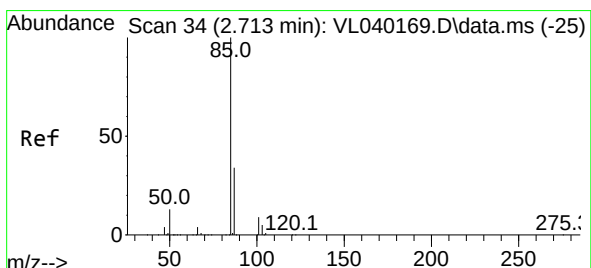
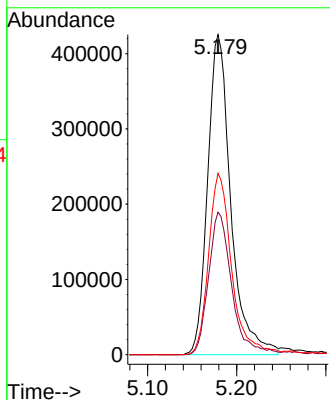
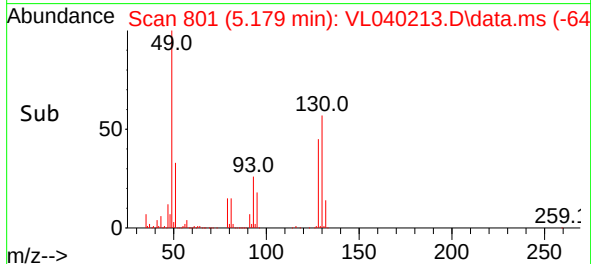
Instrument :
MSVOA_L
ClientSampleId :
IA-21DUP



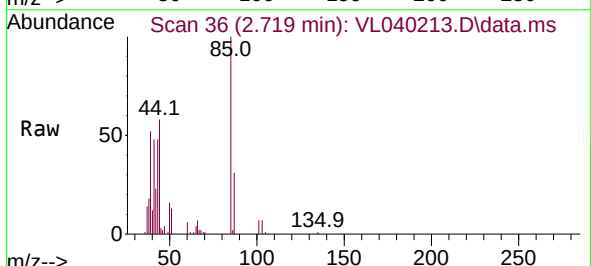
Tgt Ion: 49 Resp: 767949
Ion Ratio Lower Upper
49 100
128 45.6 24.1 72.3
130 58.1 30.9 92.8

Manual Integrations
APPROVED

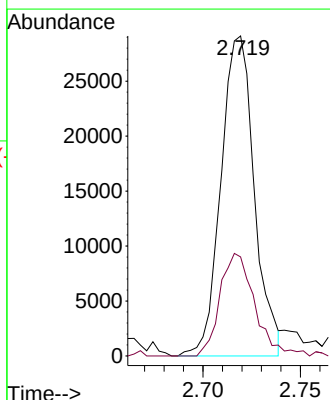
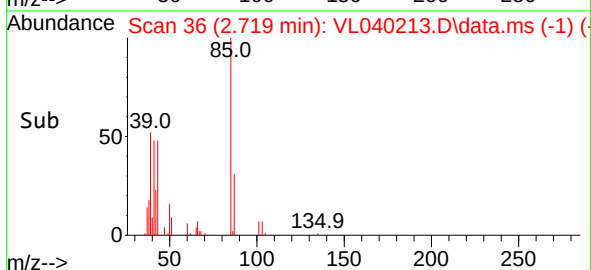
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023

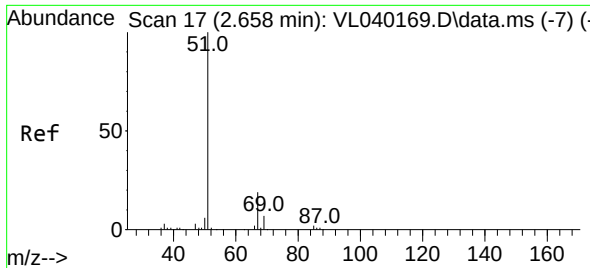


#2
Dichlorodifluoromethane
Concen: 0.243 ppbv
RT: 2.719 min Scan# 36
Delta R.T. 0.006 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48



Tgt Ion: 85 Resp: 34732
Ion Ratio Lower Upper
85 100
87 31.0 27.0 40.6





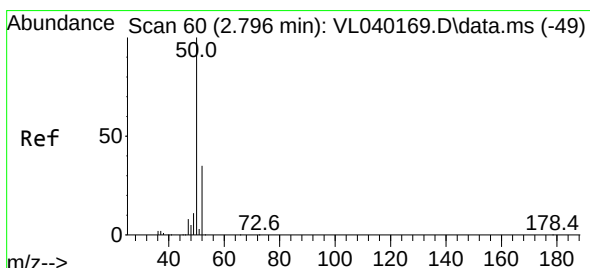
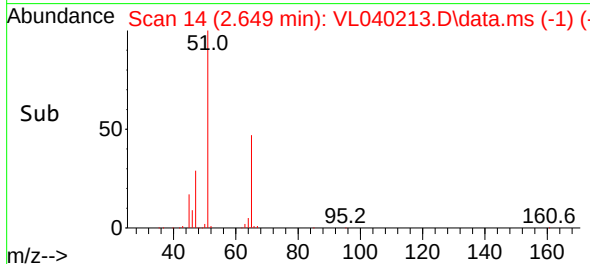
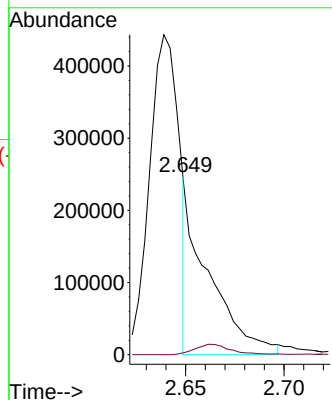
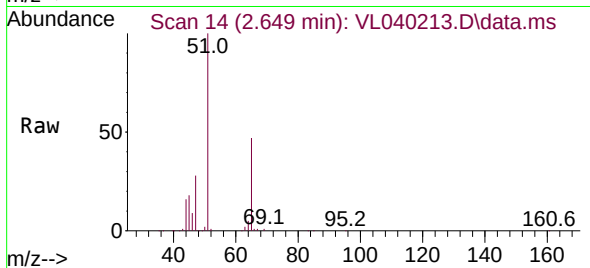
#3
Chlorodifluoromethane
Concen: 2.084 ppbv m
RT: 2.649 min Scan# 14
Delta R.T. -0.009 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

Instrument :
MSVOA_L
ClientSampleId :
IA-21DUP

Tgt Ion: 51 Resp: 191158
Ion Ratio Lower Upper
51 100
67 10.2 15.4 23.2

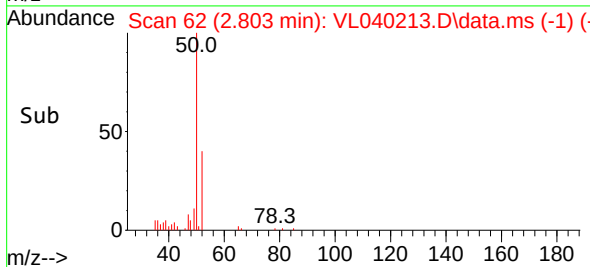
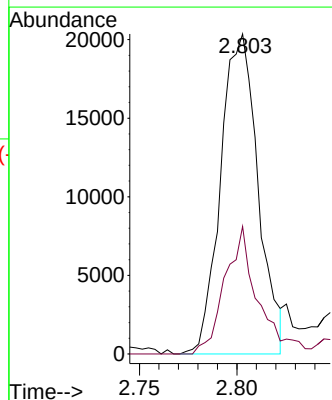
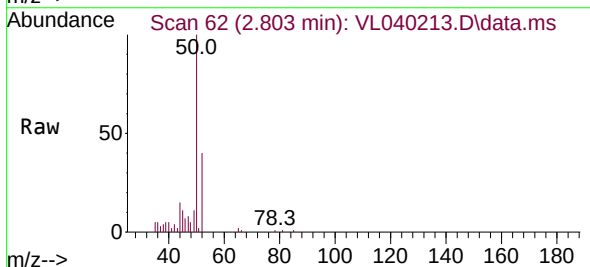
Manual Integrations
APPROVED

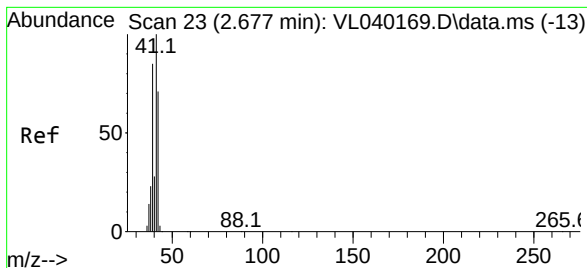
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#4
Chloromethane
Concen: 0.471 ppbv
RT: 2.803 min Scan# 62
Delta R.T. 0.007 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

Tgt Ion: 50 Resp: 27134
Ion Ratio Lower Upper
50 100
52 39.1 28.3 42.5





#9

Propene

Concen: 6.289 ppbv m

RT: 2.690 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL040213.D

Acq: 22 Feb 2023 8:48

Instrument :

MSVOA_L

ClientSampleId :

IA-21DUP

Tgt Ion: 41 Resp: 23516

Ion Ratio Lower Upper

41 100

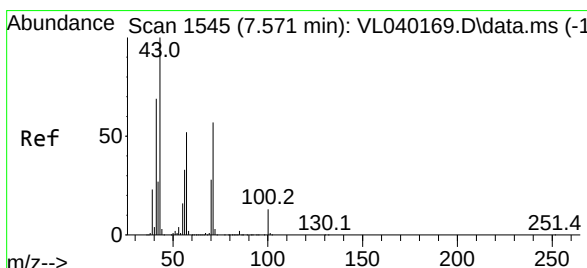
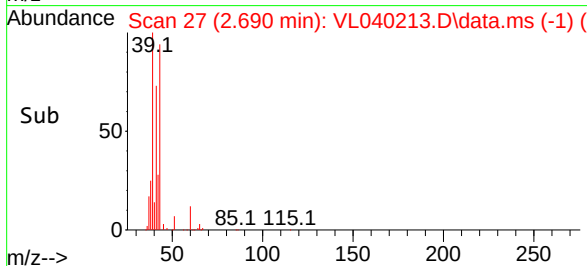
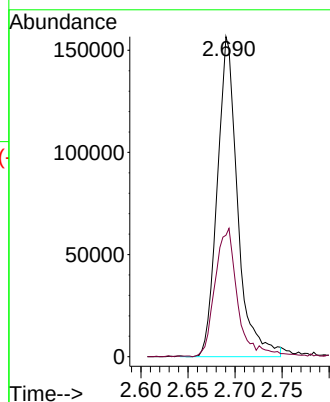
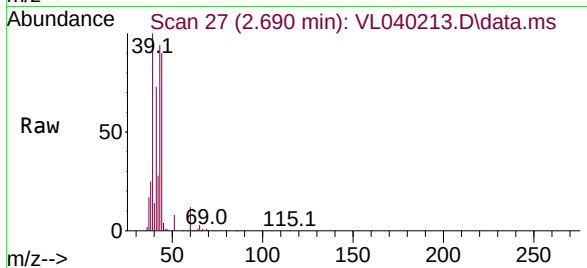
42 84.1 56.9 85.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023

Supervised By :Mahesh Dadoda 02/23/2023



#10

Heptane

Concen: 0.174 ppbv

RT: 7.571 min Scan# 1545

Delta R.T. 0.000 min

Lab File: VL040213.D

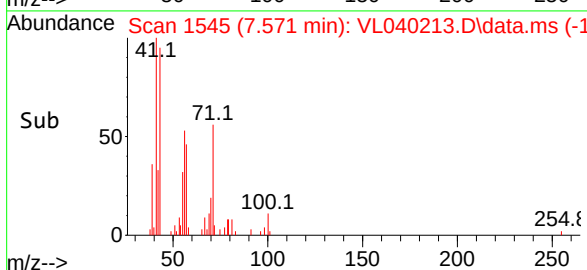
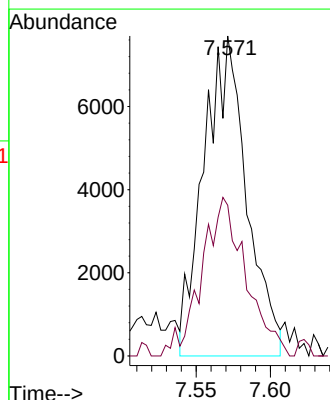
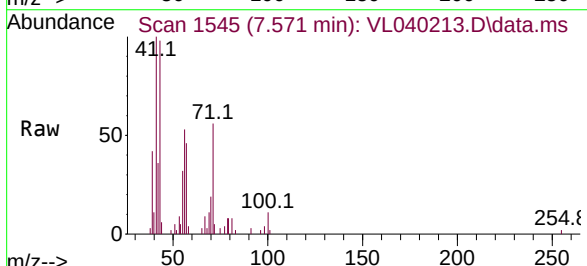
Acq: 22 Feb 2023 8:48

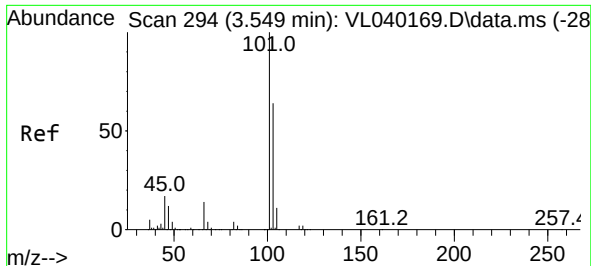
Tgt Ion: 43 Resp: 15501

Ion Ratio Lower Upper

43 100

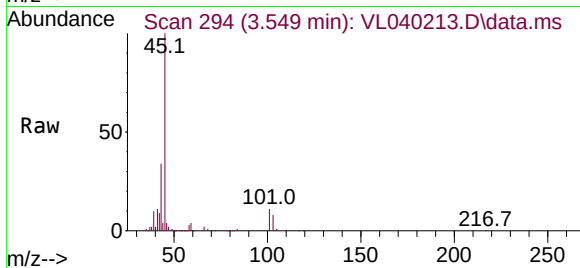
57 52.0 41.4 62.2





#11
Trichlorofluoromethane
Concen: 0.242 ppbv
RT: 3.549 min Scan# 294
Delta R.T. -0.000 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

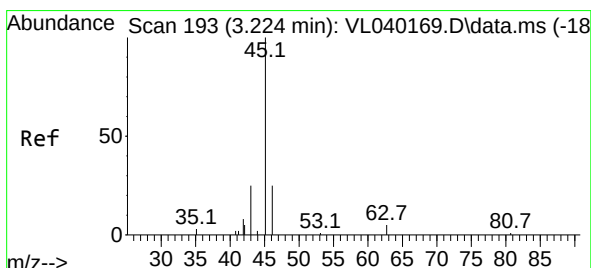
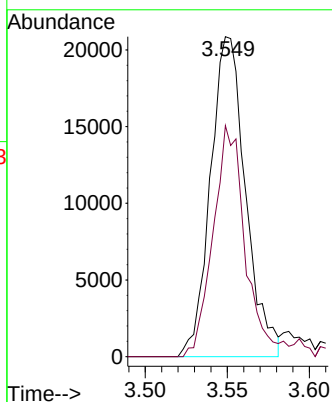
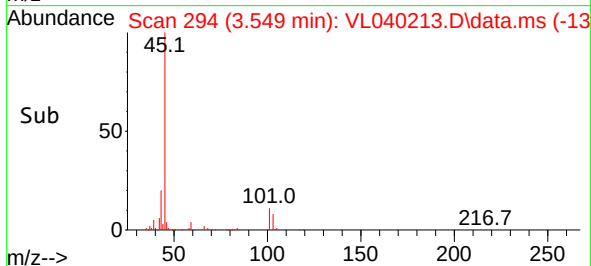
Instrument :
MSVOA_L
ClientSampleId :
IA-21DUP



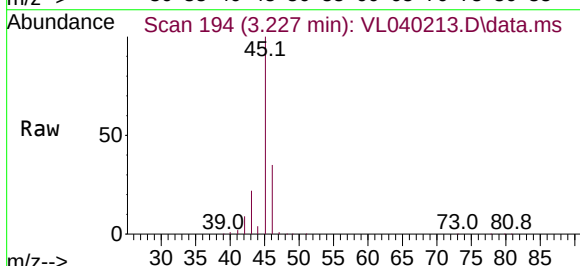
Tgt Ion:101 Resp: 3103
Ion Ratio Lower Upper
101 100
103 72.2 51.0 76.6

Manual Integrations
APPROVED

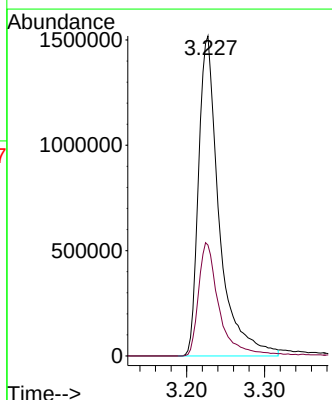
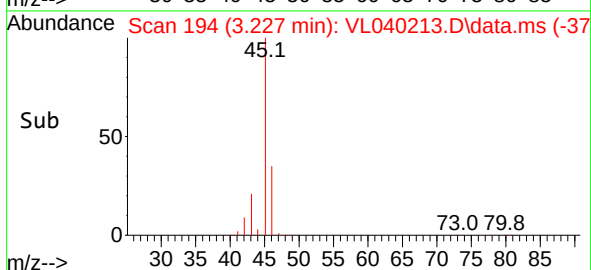
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023

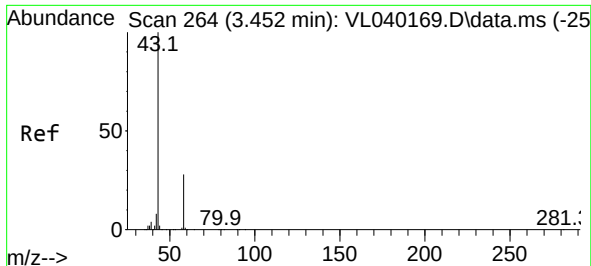


#13
Ethanol
Concen: 810.474 ppbv
RT: 3.227 min Scan# 194
Delta R.T. 0.003 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48



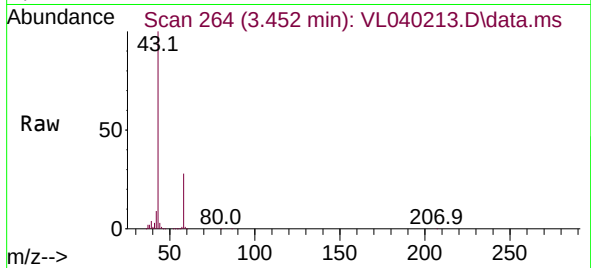
Tgt Ion: 45 Resp: 2790116
Ion Ratio Lower Upper
45 100
46 36.7 13.3 53.1





#15
Acetone
Concen: 13.223 ppbv
RT: 3.452 min Scan# 20
Delta R.T. 0.000 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

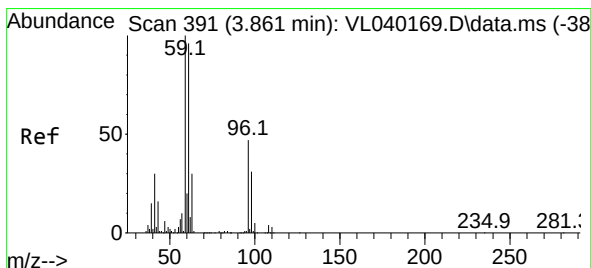
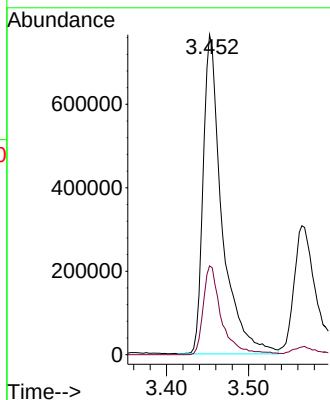
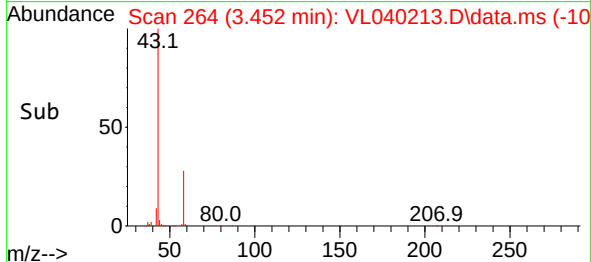
Instrument :
MSVOA_L
ClientSampleId :
IA-21DUP



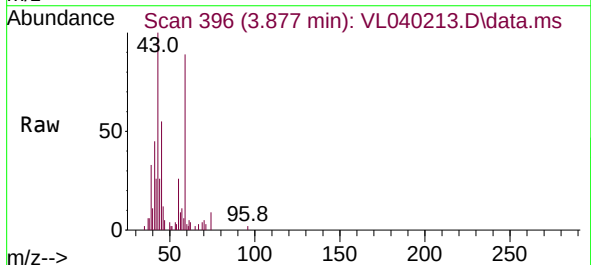
Tgt Ion: 43 Resp: 1222554
Ion Ratio Lower Upper
43 100
58 26.9 22.4 33.6

Manual Integrations
APPROVED

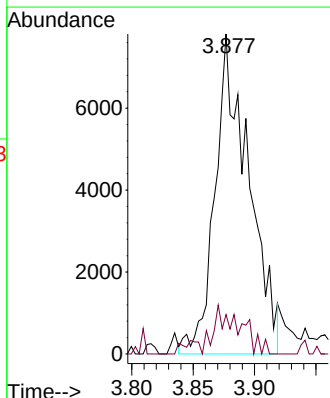
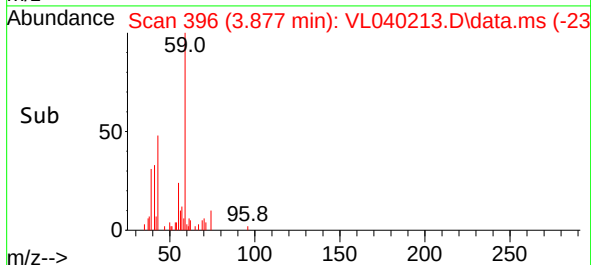
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023

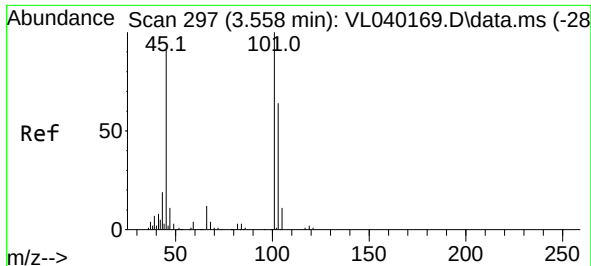


#17
tert-Butyl alcohol
Concen: 0.176 ppbv m
RT: 3.877 min Scan# 396
Delta R.T. 0.016 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48



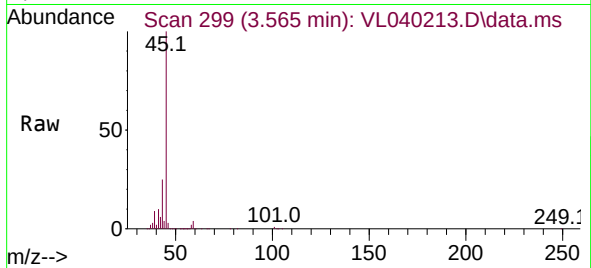
Tgt Ion: 59 Resp: 14834
Ion Ratio Lower Upper
59 100
57 62.6 8.5 12.7#





#19
Isopropyl Alcohol
Concen: 50.097 ppbv
RT: 3.565 min Scan# 297
Delta R.T. 0.007 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

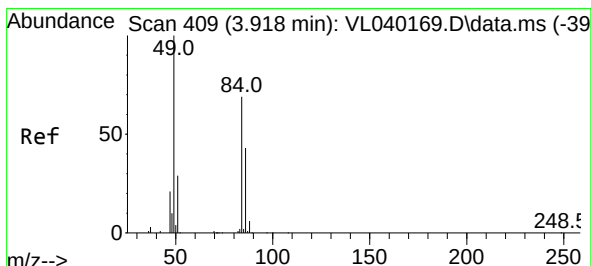
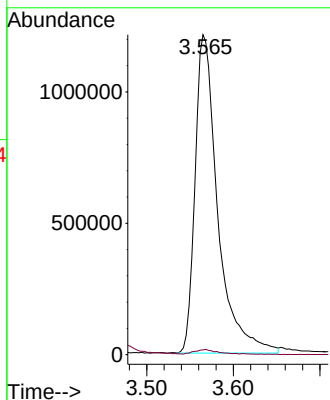
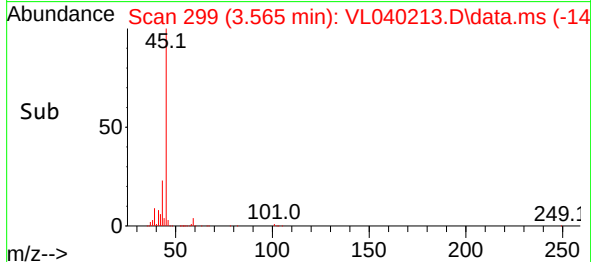
Instrument :
MSVOA_L
ClientSampleId :
IA-21DUP



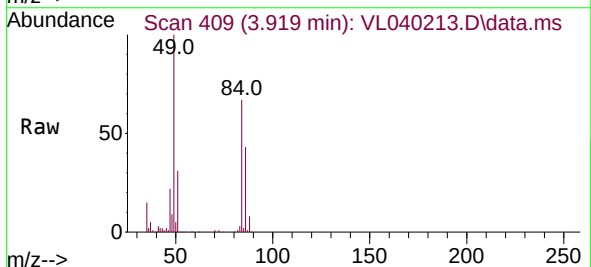
Tgt Ion: 45 Resp: 2201772
Ion Ratio Lower Upper
45 100
58 2.0 2.6 3.8

Manual Integrations
APPROVED

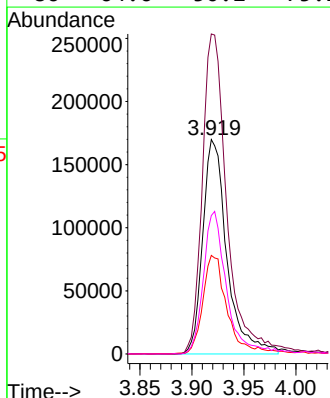
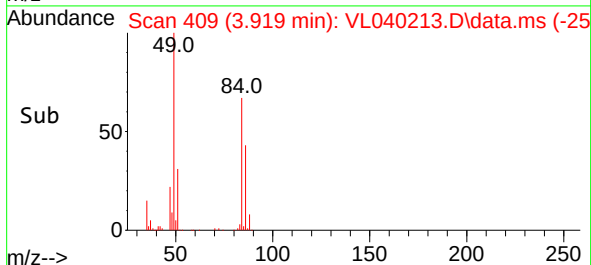
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023

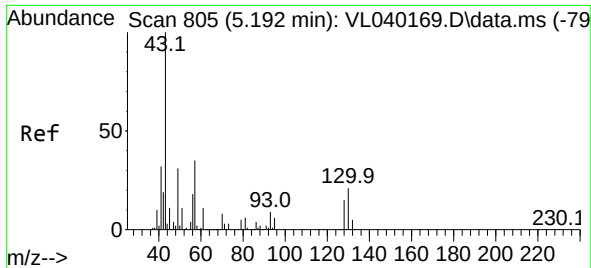


#20
Methylene Chloride
Concen: 5.704 ppbv
RT: 3.919 min Scan# 409
Delta R.T. 0.001 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48



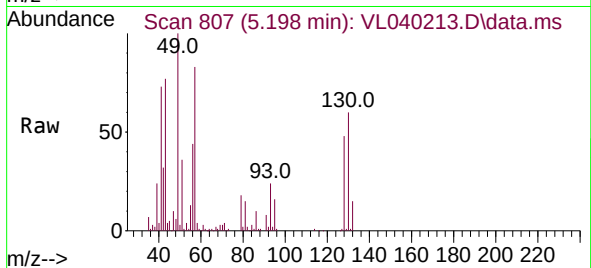
Tgt Ion: 84 Resp: 274550
Ion Ratio Lower Upper
84 100
49 149.1 115.5 173.3
51 45.6 33.1 49.7
86 64.6 50.2 75.2





#25
Ethyl Acetate
Concen: 1.099 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.006 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

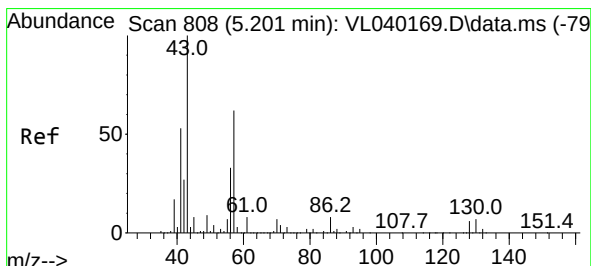
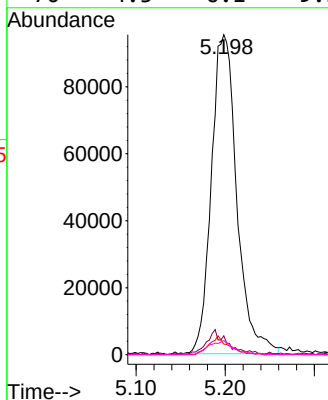
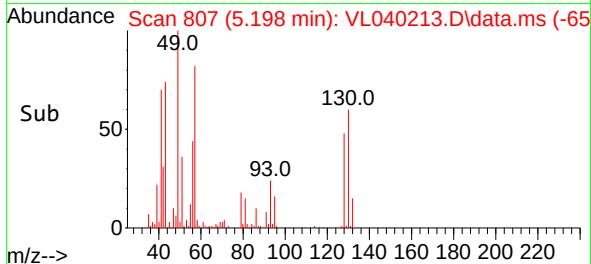
Instrument :
MSVOA_L
ClientSampleId :
IA-21DUP



Tgt Ion: 43	Resp: 18894
Ion Ratio	Lower Upper
43 100	
45 6.8	8.3 12.5
61 4.6	8.4 12.6
70 4.3	6.1 9.1

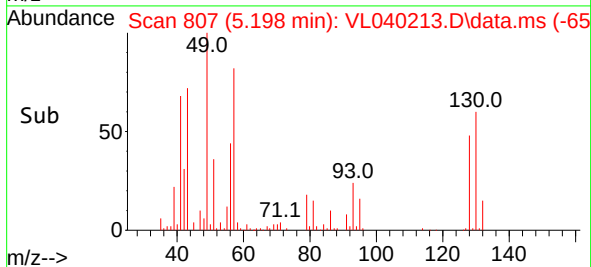
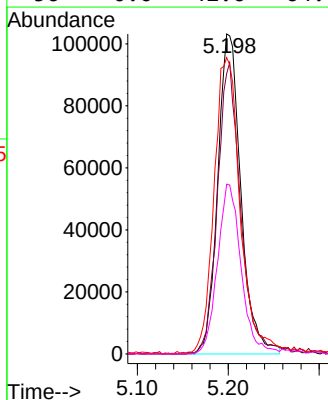
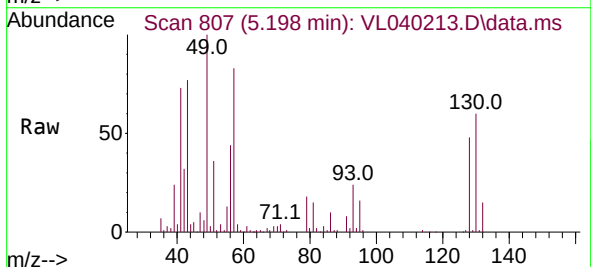
Manual Integrations
APPROVED

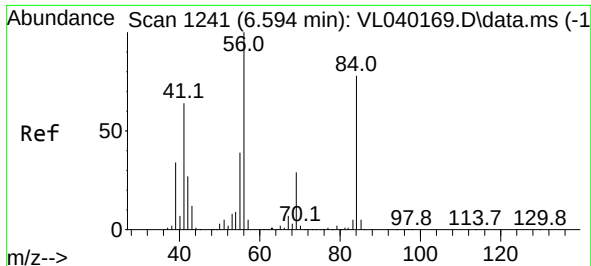
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#26
Hexane
Concen: 2.477 ppbv m
RT: 5.198 min Scan# 807
Delta R.T. -0.003 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

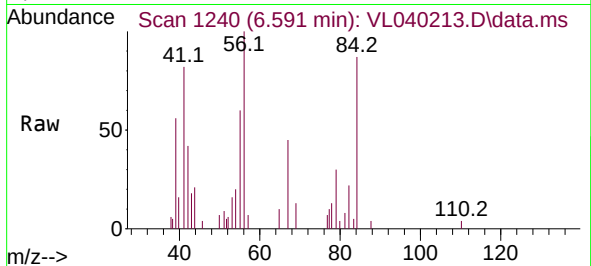
Tgt Ion: 57	Resp: 182742
Ion Ratio	Lower Upper
57 100	
41 0.0	74.3 111.5
43 0.0	193.0 289.4
56 0.0	42.6 64.0





#30
Cyclohexane
Concen: 0.106 ppbv m
RT: 6.591 min Scan# 1240
Delta R.T. -0.003 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

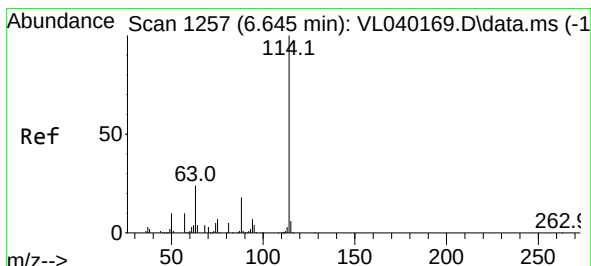
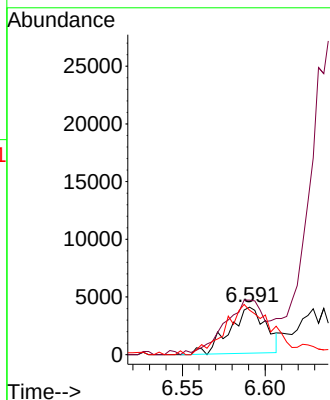
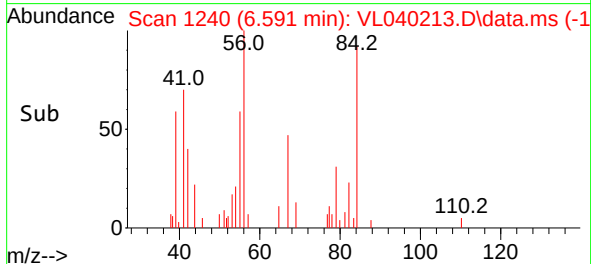
Instrument :
MSVOA_L
ClientSampleId :
IA-21DUP



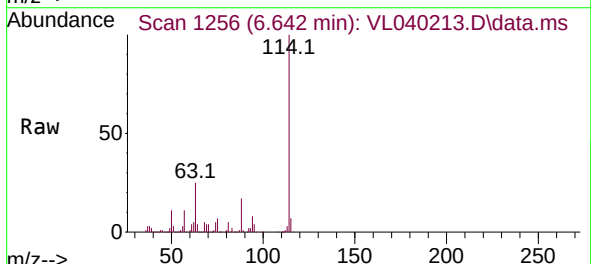
Tgt Ion: 84 Resp: 6110
Ion Ratio Lower Upper
84 100
56 143.0 109.9 164.9
41 154.6 67.8 101.6

Manual Integrations
APPROVED

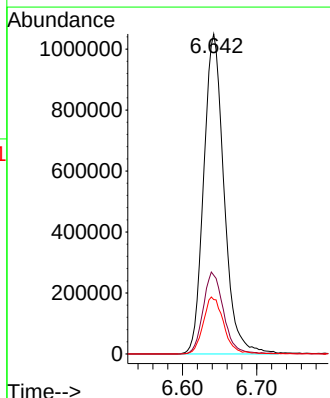
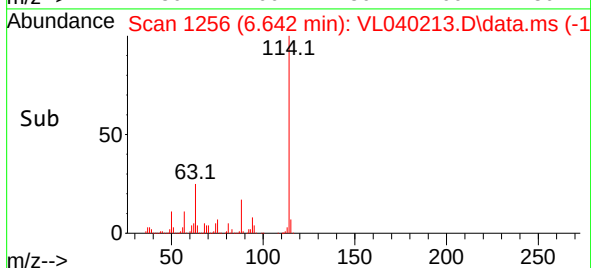
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023

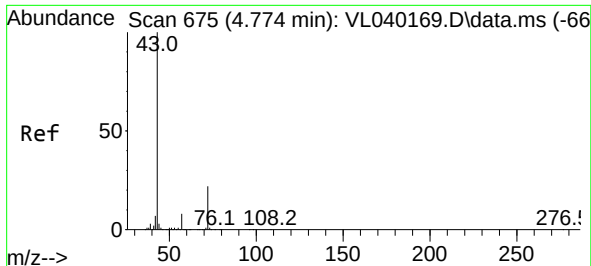


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. -0.003 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48



Tgt Ion:114 Resp: 1993812
Ion Ratio Lower Upper
114 100
63 26.0 20.4 30.6
88 18.1 14.3 21.5





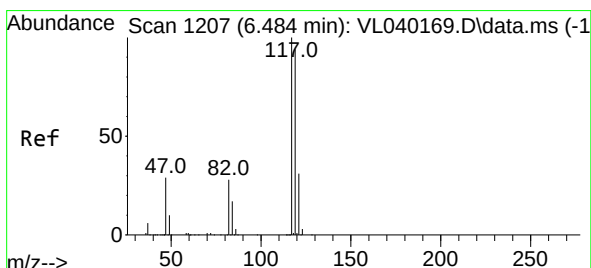
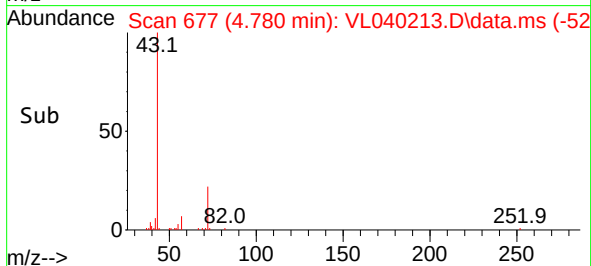
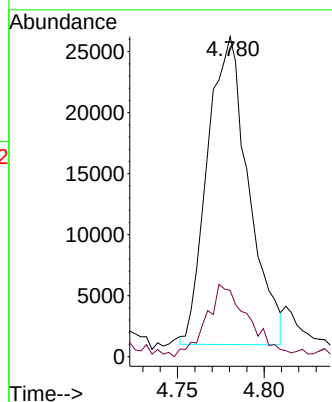
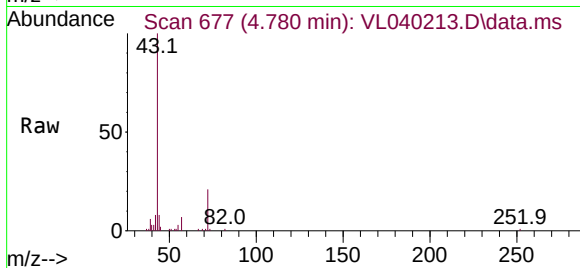
#34
2-Butanone
Concen: 0.423 ppbv
RT: 4.780 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

Instrument :
MSVOA_L
ClientSampleId :
IA-21DUP

Tgt Ion: 43 Resp: 41629
Ion Ratio Lower Upper
43 100
72 25.9 17.8 26.8

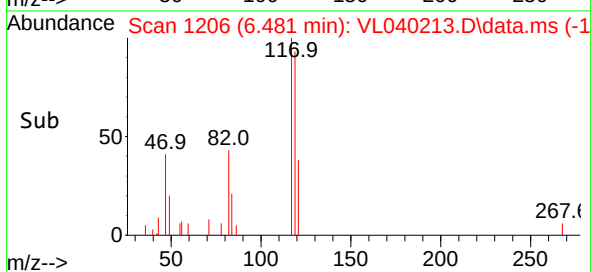
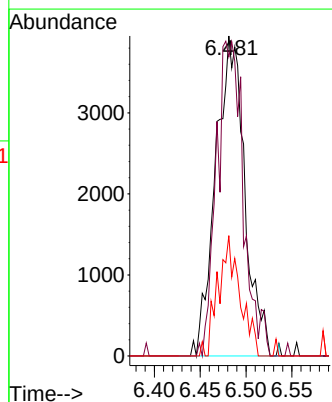
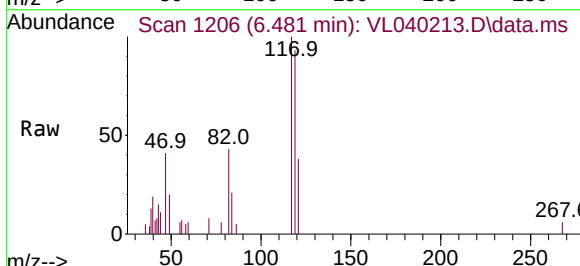
Manual Integrations
APPROVED

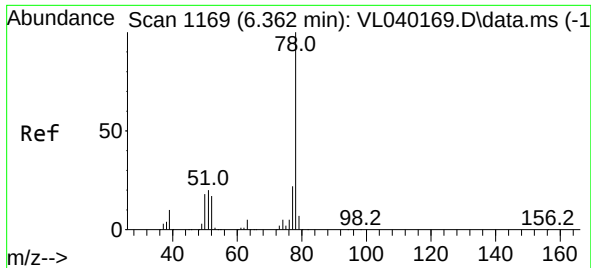
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 6.481 min Scan# 1206
Delta R.T. -0.003 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

Tgt Ion:117 Resp: 8742
Ion Ratio Lower Upper
117 100
119 93.4 75.0 112.6
121 37.6 25.0 37.4#





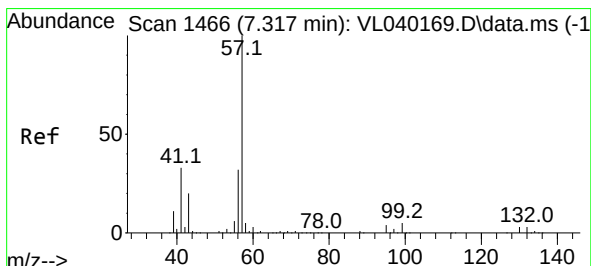
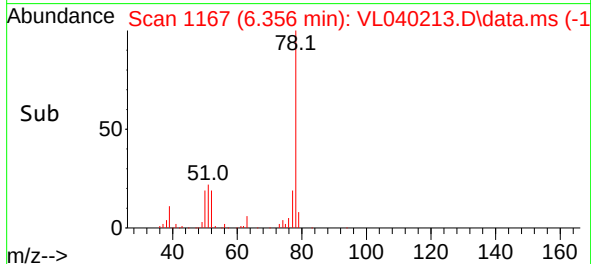
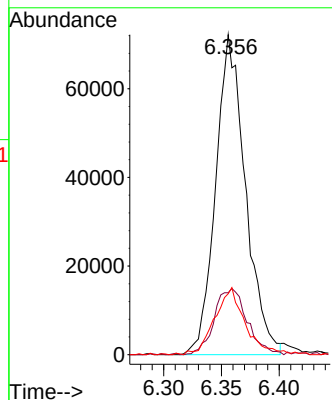
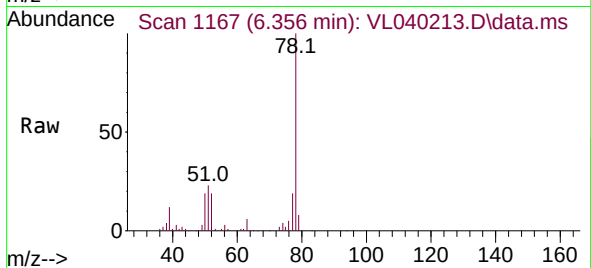
#36
Benzene
Concen: 0.835 ppbv
RT: 6.356 min Scan# 1169
Delta R.T. -0.006 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

Instrument :
MSVOA_L
ClientSampleId :
IA-21DUP

Tgt Ion: 78 Resp: 12962
Ion Ratio Lower Upper
78 100
77 19.3 17.5 26.3
50 18.8 14.6 22.0

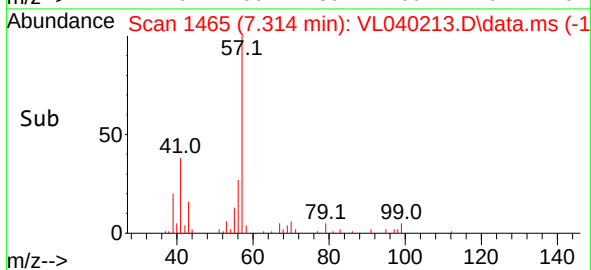
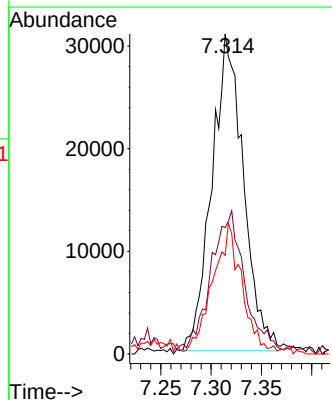
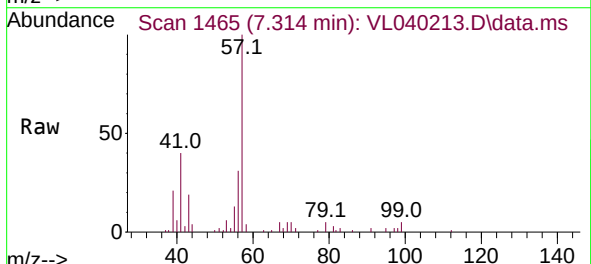
Manual Integrations
APPROVED

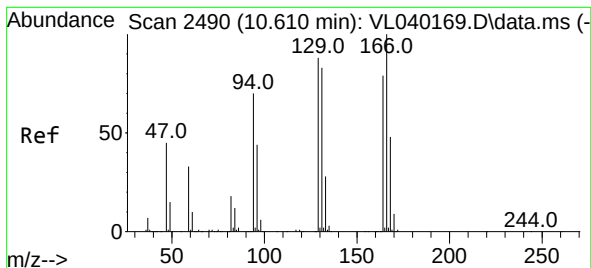
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#44
2,2,4-Trimethylpentane
Concen: 0.260 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. -0.003 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

Tgt Ion: 57 Resp: 67414
Ion Ratio Lower Upper
57 100
41 48.4 26.2 39.4#
56 40.2 24.9 37.3#





#52

Tetrachloroethene

Concen: 0.037 ppbv

RT: 10.616 min Scan# 2490

Delta R.T. 0.006 min

Lab File: VL040213.D

Acq: 22 Feb 2023 8:48

Instrument :

MSVOA_L

ClientSampleId :

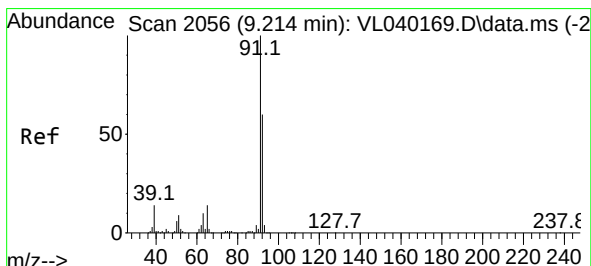
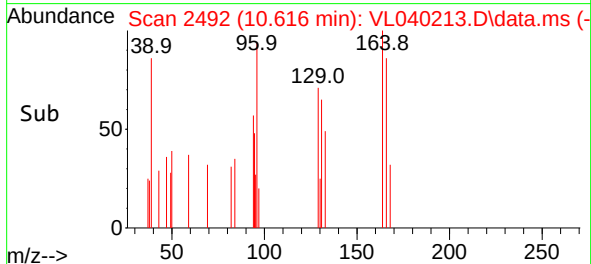
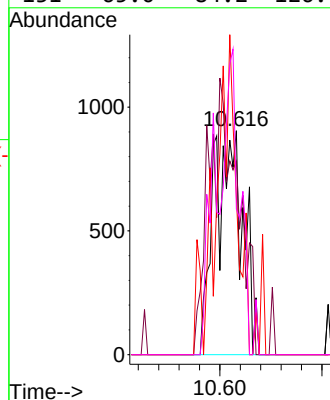
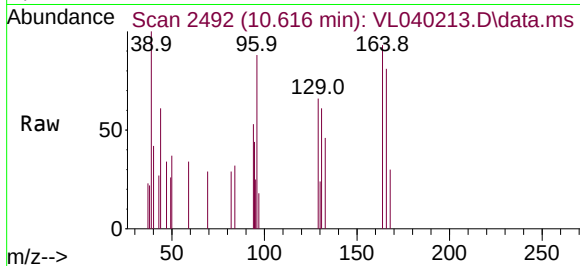
IA-21DUP

Tgt Ion:164	Resp:	1790
Ion Ratio	Lower	Upper
164	100	
166	86.4	101.5 152.3
129	70.7	89.0 133.4
131	65.0	84.2 126.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#53

Toluene

Concen: 1.767 ppbv

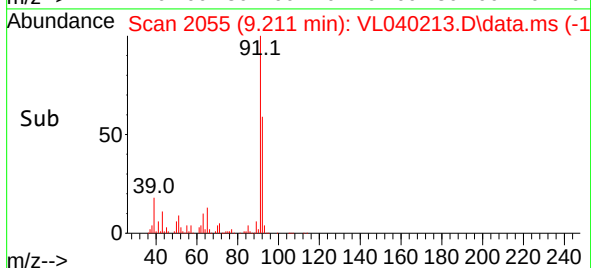
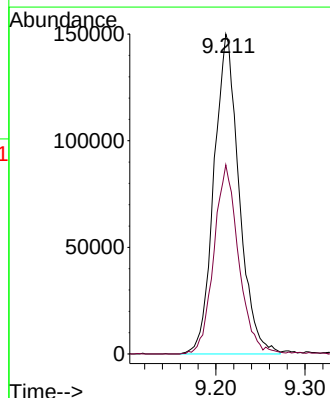
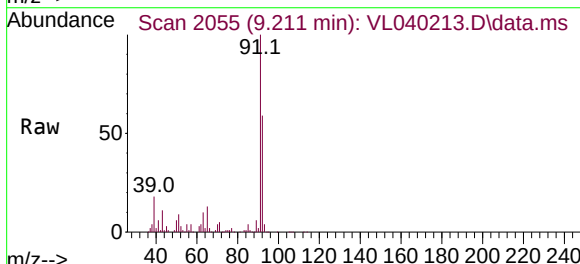
RT: 9.211 min Scan# 2055

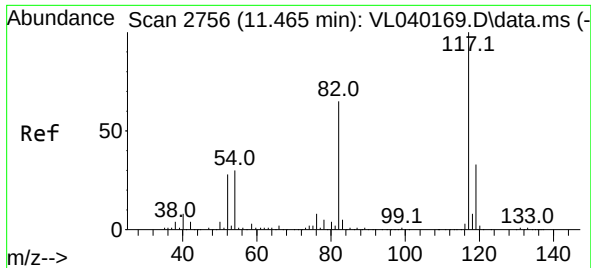
Delta R.T. -0.003 min

Lab File: VL040213.D

Acq: 22 Feb 2023 8:48

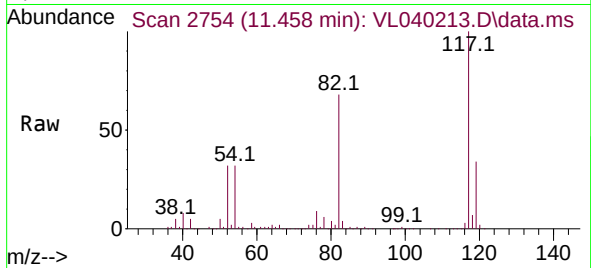
Tgt Ion: 91	Resp:	293655
Ion Ratio	Lower	Upper
91	100	
92	58.8	48.9 73.3





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

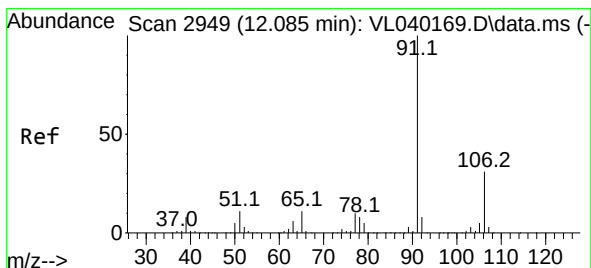
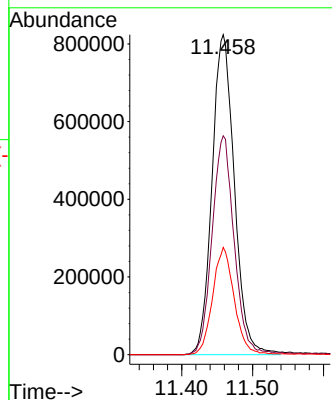
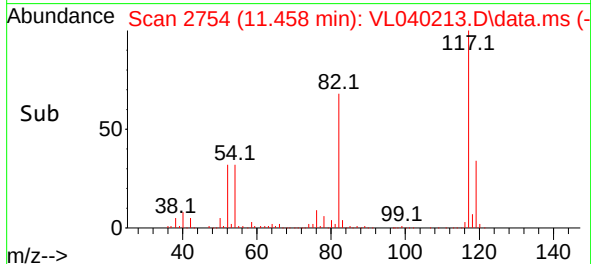
Instrument :
MSVOA_L
ClientSampleId :
IA-21DUP



Tgt Ion:117 Resp: 1801684
Ion Ratio Lower Upper
117 100
82 68.3 53.3 79.9
119 32.6 24.6 37.0

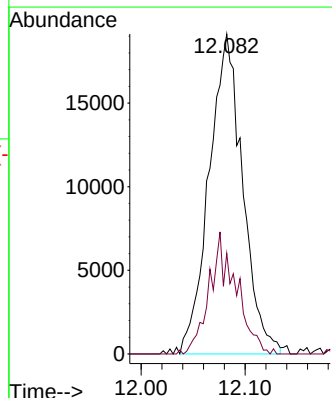
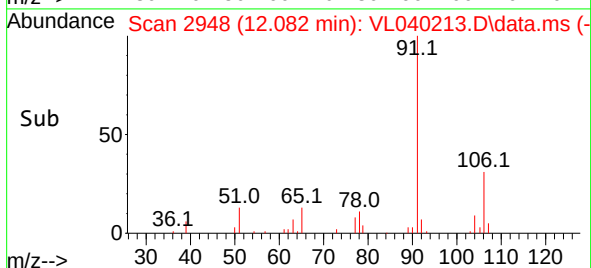
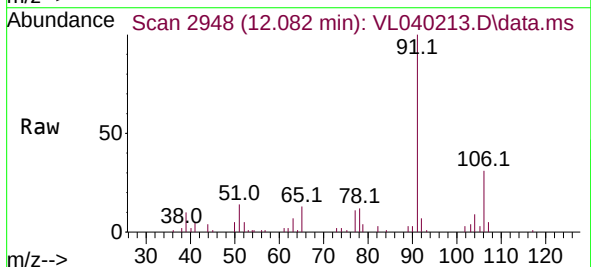
Manual Integrations
APPROVED

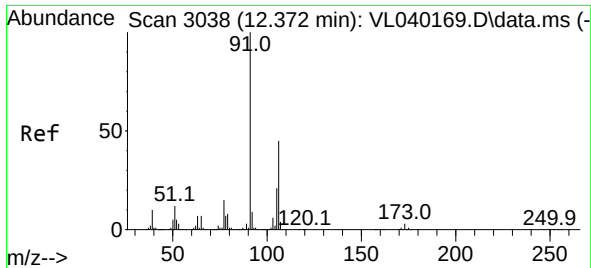
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#58
Ethyl Benzene
Concen: 0.196 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. -0.003 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

Tgt Ion: 91 Resp: 42873
Ion Ratio Lower Upper
91 100
106 31.4 24.9 37.3





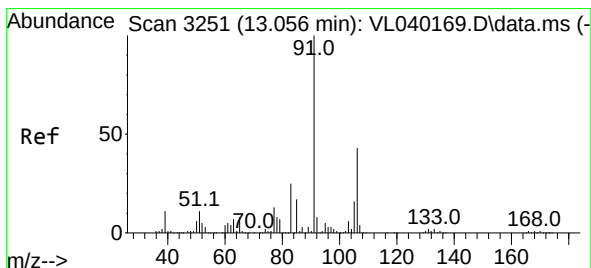
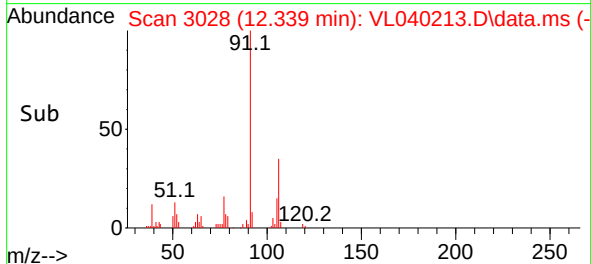
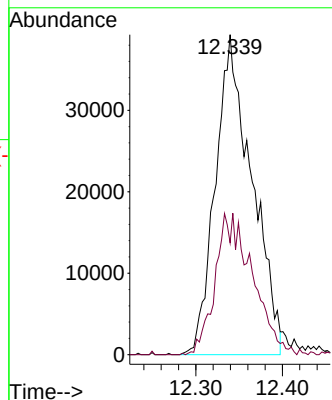
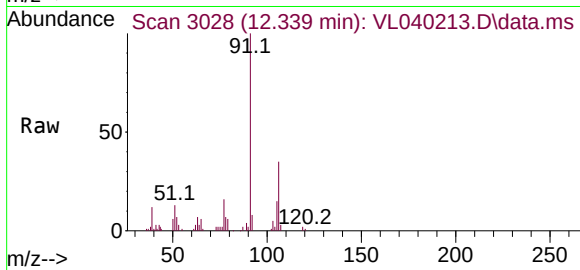
#59
m/p-Xylene
Concen: 0.591 ppbv
RT: 12.339 min Scan# 3038
Delta R.T. -0.033 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

Instrument :
MSVOA_L
ClientSampleId :
IA-21DUP

Tgt Ion: 91 Resp: 114558
Ion Ratio Lower Upper
91 100
106 45.3 34.6 51.8

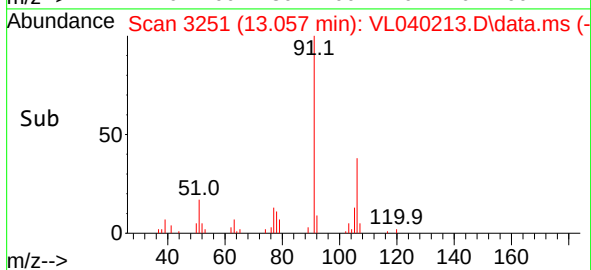
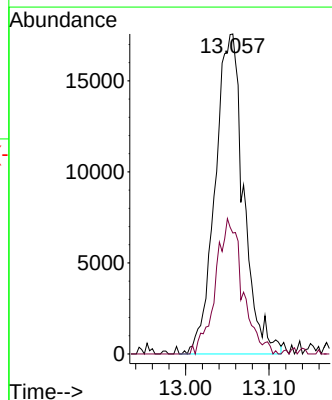
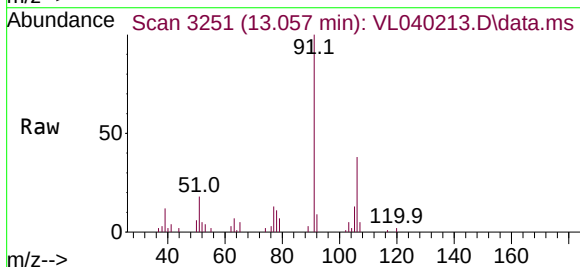
Manual Integrations
APPROVED

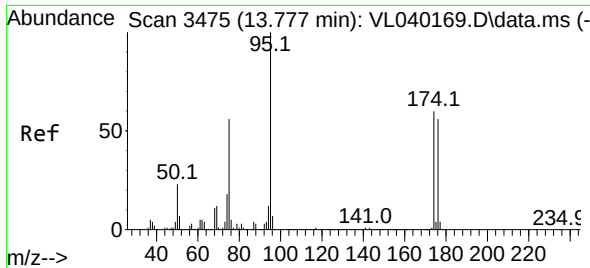
Reviewed By :Semsettin Yesilyurt 02/22/2023
Supervised By :Mahesh Dadoda 02/23/2023



#60
o-Xylene
Concen: 0.224 ppbv m
RT: 13.057 min Scan# 3251
Delta R.T. 0.001 min
Lab File: VL040213.D
Acq: 22 Feb 2023 8:48

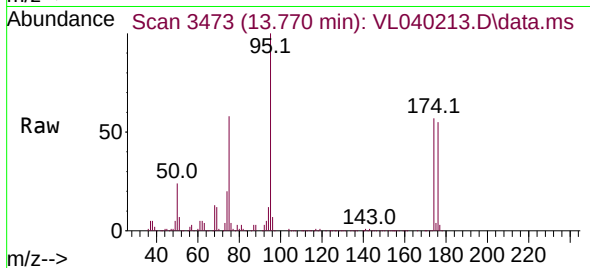
Tgt Ion: 91 Resp: 41774
Ion Ratio Lower Upper
91 100
106 40.9 21.6 65.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.226 ppbv
 RT: 13.770 min Scan# 3475
 Delta R.T. -0.007 min
 Lab File: VL040213.D
 Acq: 22 Feb 2023 8:48

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-21DUP



Tgt Ion: 95 Resp: 151505
 Ion Ratio Lower Upper
 95 100
 174 59.1 48.2 72.2
 175 4.1 3.4 5.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/22/2023
 Supervised By :Mahesh Dadoda 02/23/2023

