

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031722\
 Data File : VL038627.D
 Acq On : 17 Mar 2022 15:33
 Operator : SY/AP
 Sample : N1976-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1A

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/19/2022
 Supervised By :Mahesh Dadoda 03/21/2022

Quant Time: Mar 18 03:33:10 2022

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 08 21:18:44 2022

QLast Update : Tue Mar 08 21:18:44 2022

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.671	49	872099	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	7.176	114	2160405	10.000	ppbv	0.01
55) Chlorobenzene-d5	12.089	117	1929041	10.000	ppbv	# 0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.417	95	1341910	9.150	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.500%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	3.057	85	26721	0.203	ppbv	95
3) Chlorodifluoromethane	2.996	51	1274909	8.291	ppbv	98
4) Chloromethane	3.150	50	31363	0.550	ppbv	93
9) Propene	3.031	41	734132m	13.530	ppbv	
10) Heptane	8.128	43	43943	0.339	ppbv	95
11) Trichlorofluoromethane	3.954	101	23860	0.207	ppbv	93
13) Ethanol	3.626	45	13117470	2104.500	ppbv	95
15) Acetone	3.854	43	461143	7.496	ppbv #	76
19) Isopropyl Alcohol	3.989	45	638413	15.543	ppbv	99
20) Methylene Chloride	4.353	84	77307	2.088	ppbv	93
26) Hexane	5.690	57	232491	2.390	ppbv #	72
30) Cyclohexane	7.140	84	27756m	0.330	ppbv	
34) 2-Butanone	5.250	43	56382	1.007	ppbv	93
35) Carbon Tetrachloride	7.025	117	10609m	0.072	ppbv	
36) Benzene	6.893	78	159071	0.816	ppbv	98
38) Trichloroethene	7.835	130	4334m	0.056	ppbv	
44) 2,2,4-Trimethylpentane	7.874	57	94665	0.287	ppbv #	76
52) Tetrachloroethene	11.224	164	5657m	0.079	ppbv	
53) Toluene	9.806	91	922332	4.432	ppbv	100
58) Ethyl Benzene	12.716	91	59234	0.237	ppbv	98
59) m/p-Xylene	12.970	91	186281	0.871	ppbv	96
60) o-Xylene	13.690	91	62038m	0.307	ppbv	
61) Styrene	13.523	104	14442m	0.145	ppbv	
74) 1,2,4-Trimethylbenzene	16.761	105	46541m	0.202	ppbv	

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

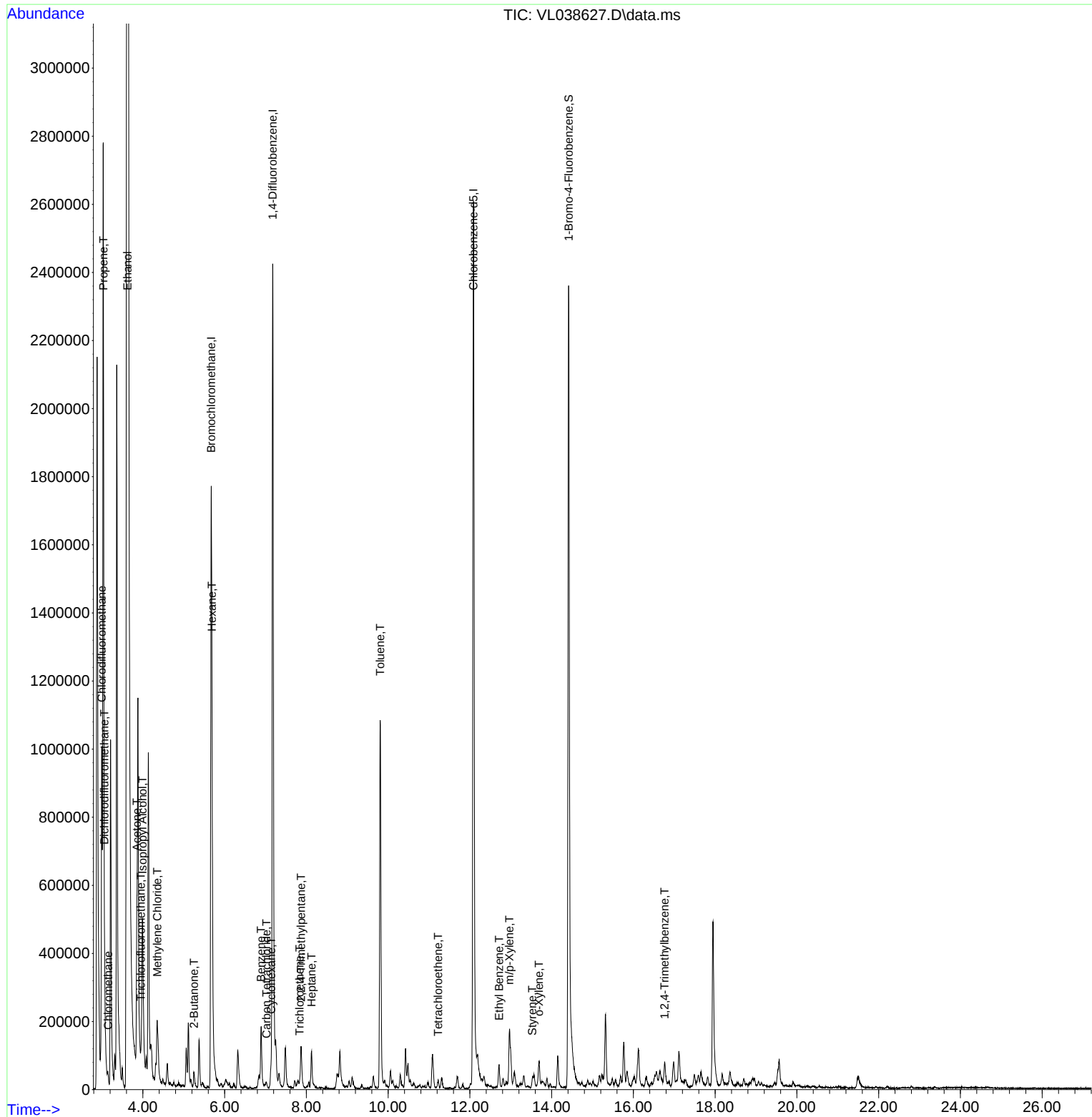
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031722\
Data File : VL038627.D
Acq On : 17 Mar 2022 15:33
Operator : SY/AP
Sample : N1976-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

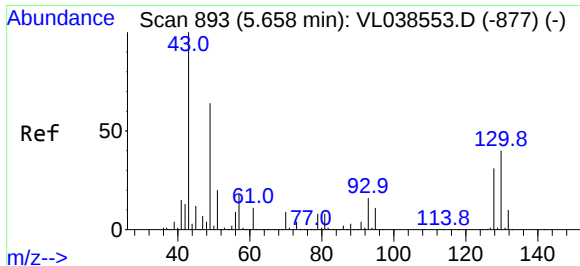
Instrument :
MSVOA_L
ClientSampleId :
IA-1A

Quant Time: Mar 18 03:33:10 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 08 21:18:44 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/19/2022
Supervised By : Mahesh Dadoda 03/21/2022





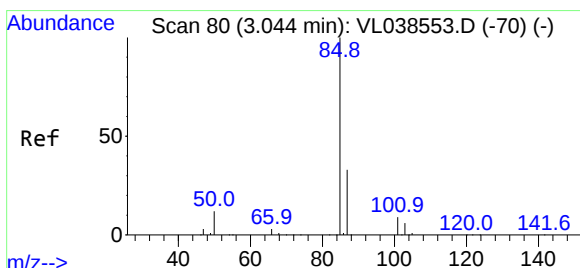
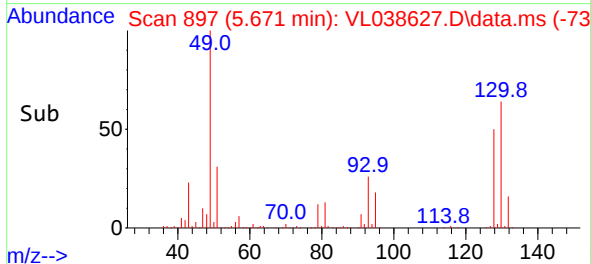
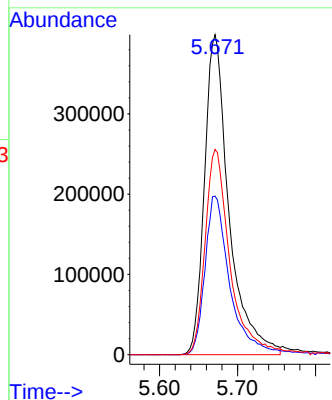
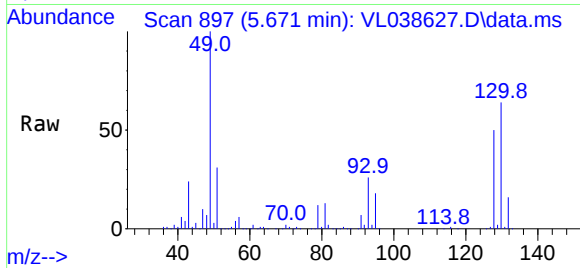
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.671 min Scan# 89
Delta R.T. 0.013 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Instrument :
MSVOA_L
ClientSampleId :
IA-1A

Tgt Ion: 49 Resp: 872099
Ion Ratio Lower Upper
49 100
128 51.5 26.4 79.2
130 65.8 33.0 98.9

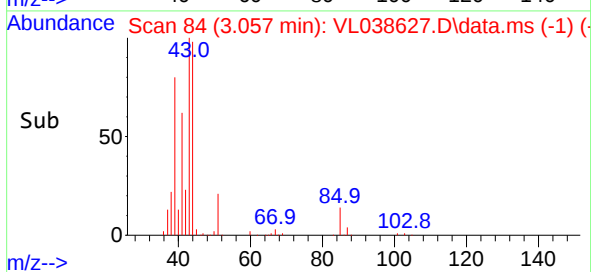
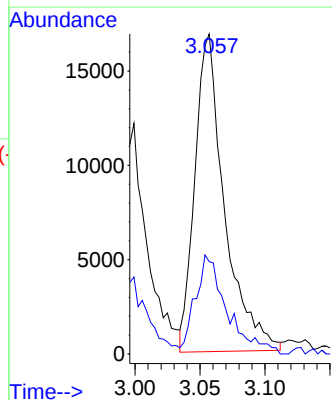
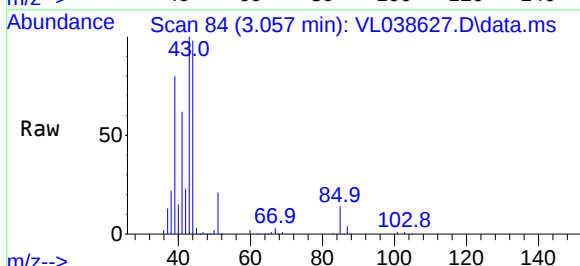
Manual Integrations
APPROVED

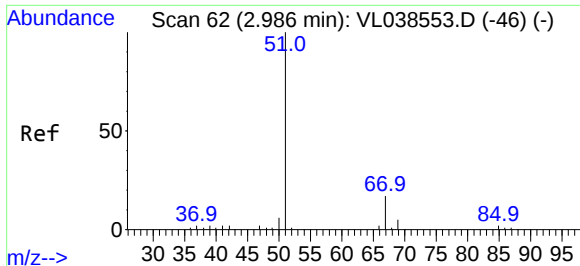
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#2
Dichlorodifluoromethane
Concen: 0.203 ppbv
RT: 3.057 min Scan# 84
Delta R.T. 0.013 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Tgt Ion: 85 Resp: 26721
Ion Ratio Lower Upper
85 100
87 29.9 26.2 39.2





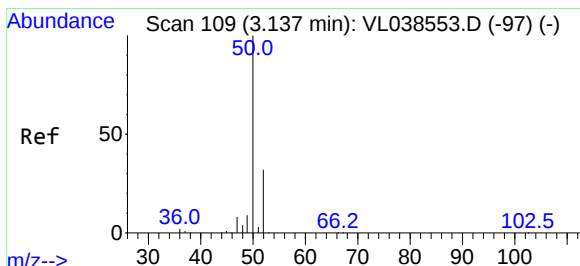
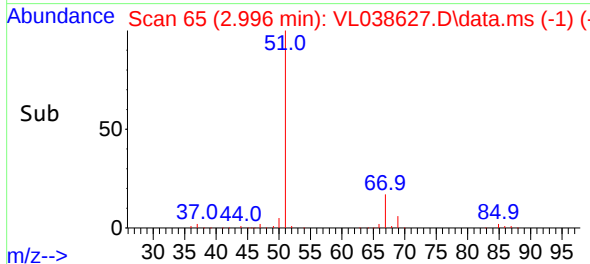
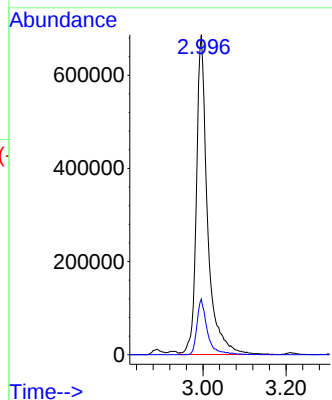
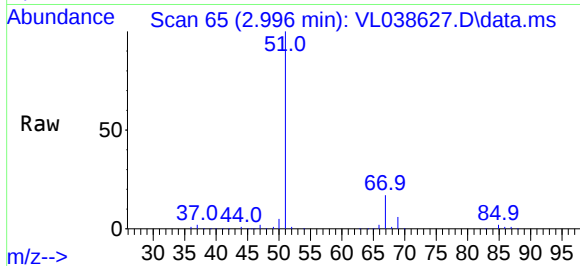
#3
Chlorodifluoromethane
Concen: 8.291 ppbv
RT: 2.996 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Instrument :
MSVOA_L
ClientSampleId :
IA-1A

Tgt Ion: 51 Resp: 1274909
Ion Ratio Lower Upper
51 100
67 16.2 13.6 20.4

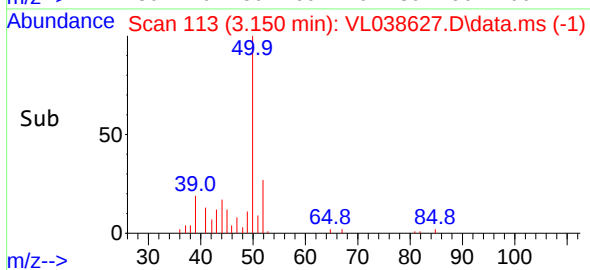
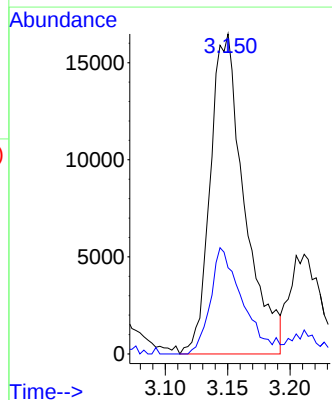
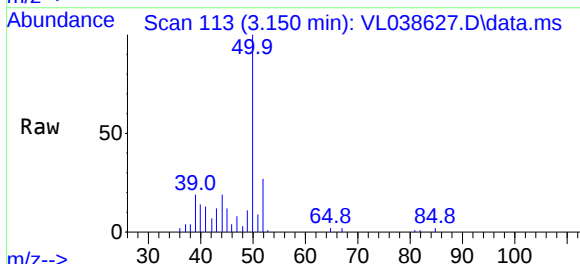
Manual Integrations
APPROVED

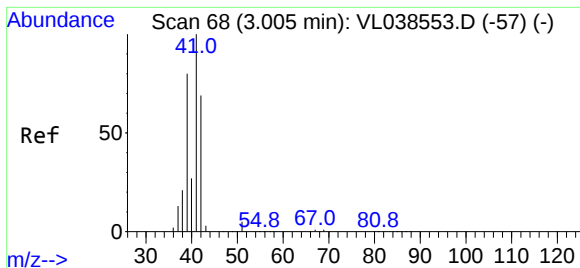
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#4
Chloromethane
Concen: 0.550 ppbv
RT: 3.150 min Scan# 113
Delta R.T. 0.013 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Tgt Ion: 50 Resp: 31363
Ion Ratio Lower Upper
50 100
52 28.2 25.6 38.4





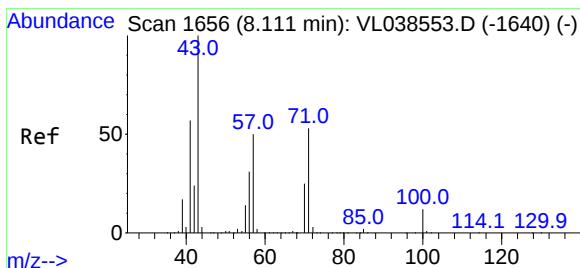
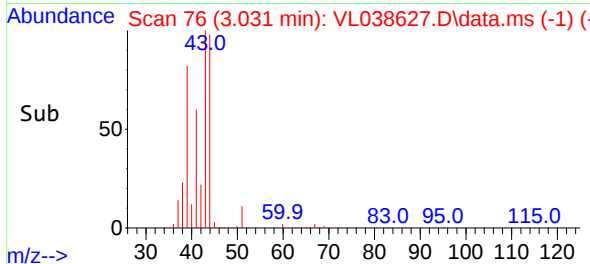
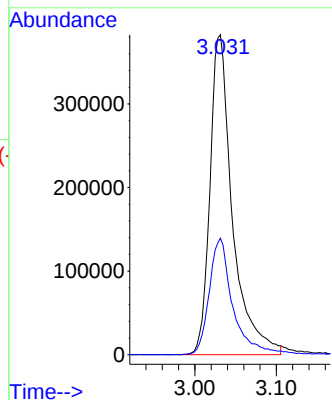
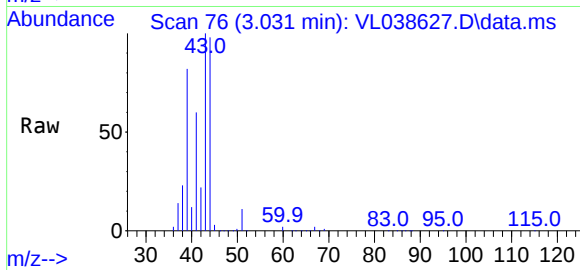
#9
Propene
Concen: 13.530 ppbv m
RT: 3.031 min Scan# 70
Delta R.T. 0.026 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Instrument :
MSVOA_L
ClientSampleId :
IA-1A

Tgt Ion: 41 Resp: 73413
Ion Ratio Lower Upper
41 100
42 33.9 55.7 83.5

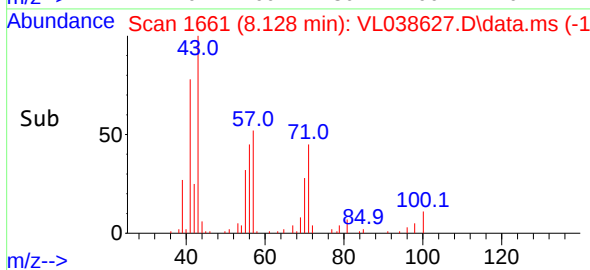
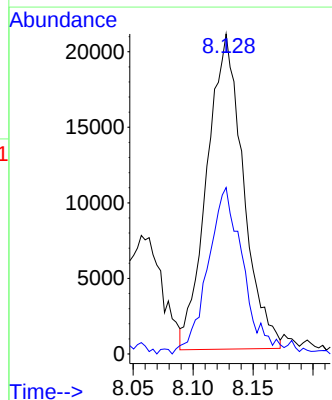
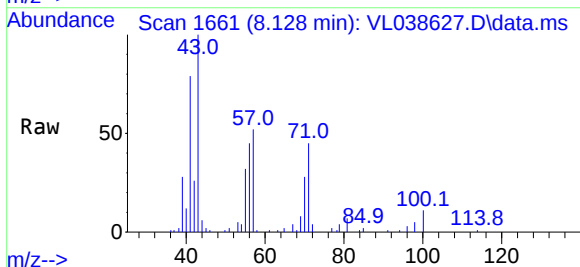
Manual Integrations
APPROVED

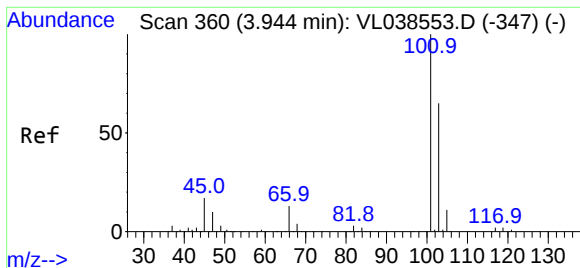
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#10
Heptane
Concen: 0.339 ppbv
RT: 8.128 min Scan# 1661
Delta R.T. 0.016 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Tgt Ion: 43 Resp: 43943
Ion Ratio Lower Upper
43 100
57 52.7 39.6 59.4





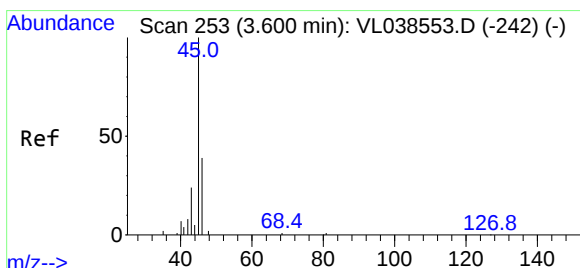
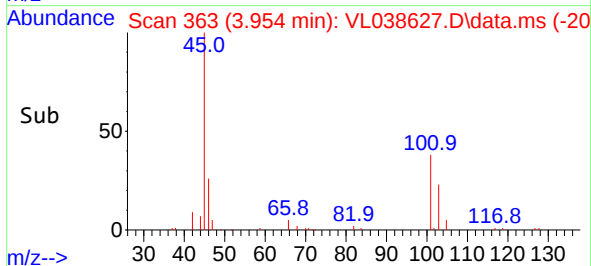
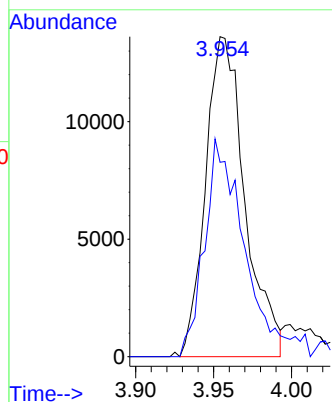
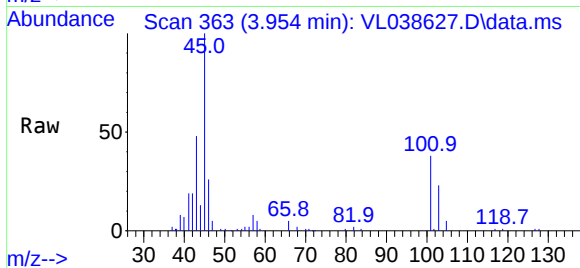
#11
Trichlorofluoromethane
Concen: 0.207 ppbv
RT: 3.954 min Scan# 30
Delta R.T. 0.010 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Instrument :
MSVOA_L
ClientSampleId :
IA-1A

Tgt Ion:101 Resp: 23860
Ion Ratio Lower Upper
101 100
103 59.5 52.0 78.0

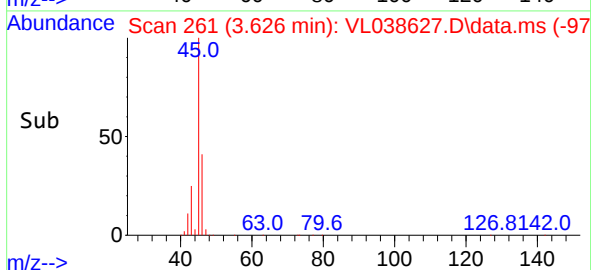
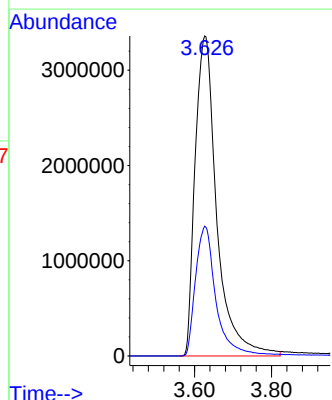
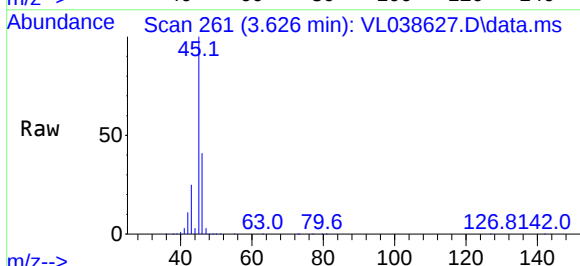
Manual Integrations
APPROVED

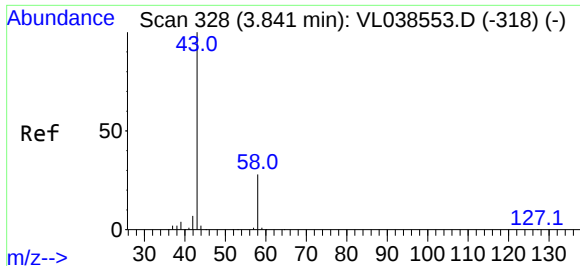
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#13
Ethanol
Concen: 2104.500 ppbv
RT: 3.626 min Scan# 261
Delta R.T. 0.026 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Tgt Ion: 45 Resp:13117470
Ion Ratio Lower Upper
45 100
46 38.8 16.8 67.0





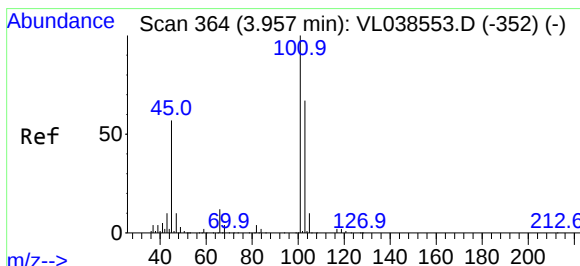
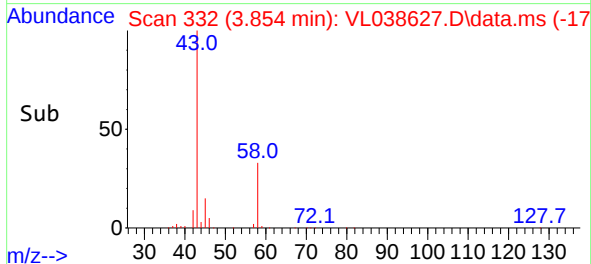
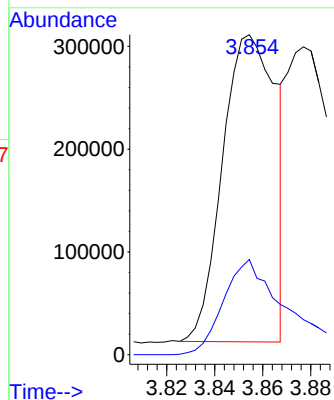
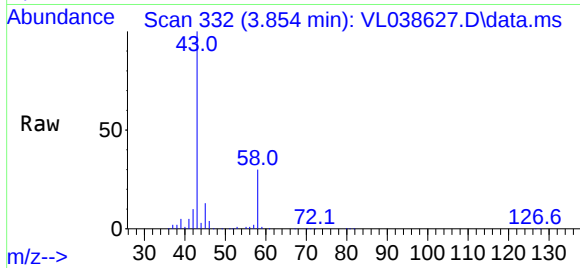
#15
Acetone
Concen: 7.496 ppbv
RT: 3.854 min Scan# 311
Delta R.T. 0.013 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Instrument :
MSVOA_L
ClientSampleId :
IA-1A

Tgt Ion: 43 Resp: 46114
Ion Ratio Lower Upper
43 100
58 40.9 22.7 34.1

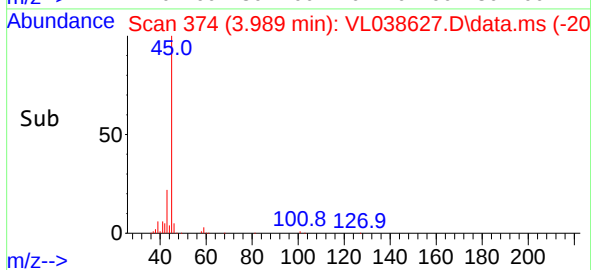
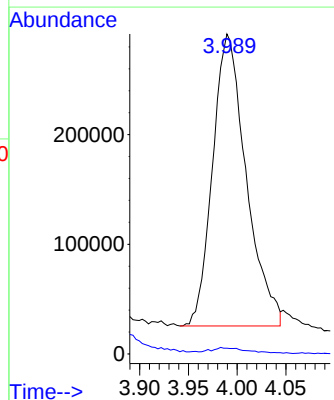
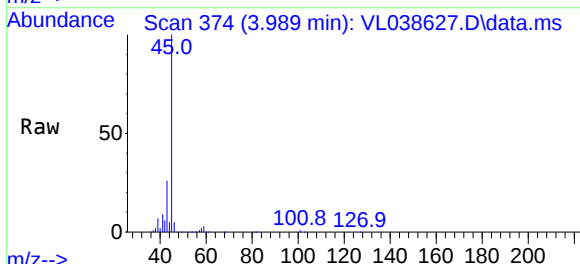
Manual Integrations
APPROVED

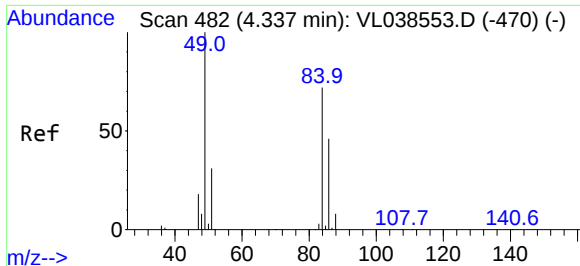
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#19
Isopropyl Alcohol
Concen: 15.543 ppbv
RT: 3.989 min Scan# 374
Delta R.T. 0.032 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

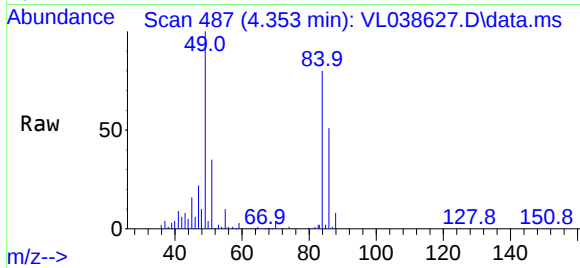
Tgt Ion: 45 Resp: 638413
Ion Ratio Lower Upper
45 100
58 3.1 2.2 3.2





#20
Methylene Chloride
Concen: 2.088 ppbv
RT: 4.353 min Scan# 41
Delta R.T. 0.016 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

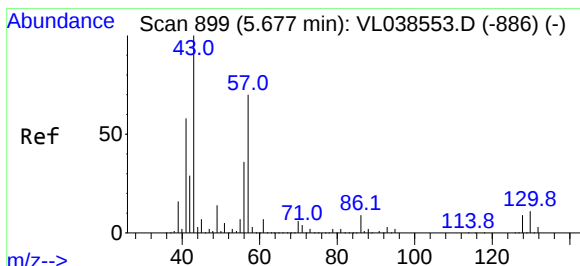
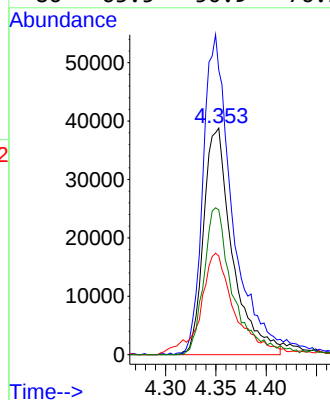
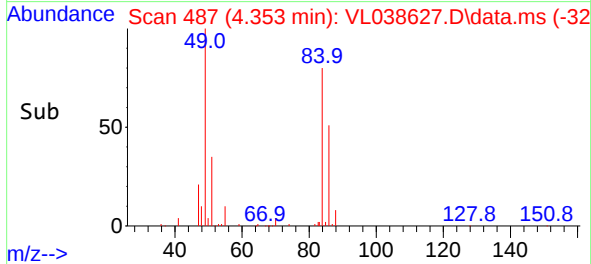
Instrument :
MSVOA_L
ClientSampleId :
IA-1A



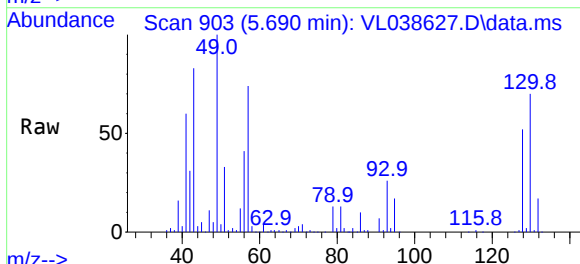
Tgt Ion: 84 Resp: 7730
Ion Ratio Lower Upper
84 100
49 124.7 111.1 166.7
51 41.2 34.0 51.0
86 63.5 50.9 76.3

Manual Integrations
APPROVED

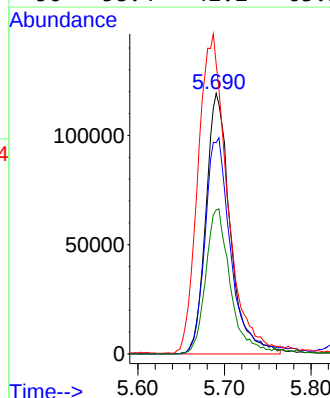
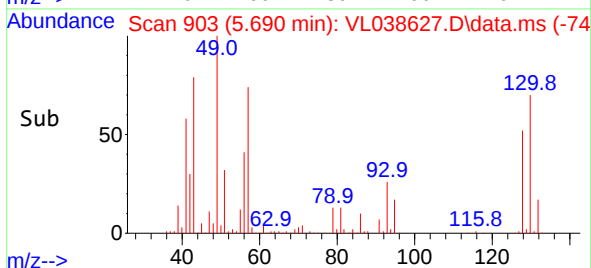
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022

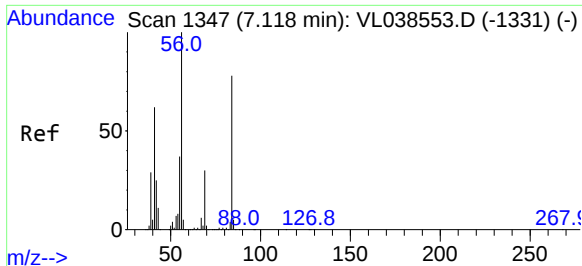


#26
Hexane
Concen: 2.390 ppbv
RT: 5.690 min Scan# 903
Delta R.T. 0.013 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33



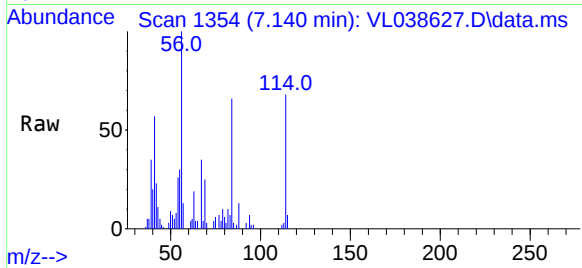
Tgt Ion: 57 Resp: 232491
Ion Ratio Lower Upper
57 100
41 89.7 67.8 101.6
43 150.5 173.6 260.4#
56 58.4 42.2 63.2





#30
Cyclohexane
Concen: 0.330 ppbv m
RT: 7.140 min Scan# 11
Delta R.T. 0.023 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

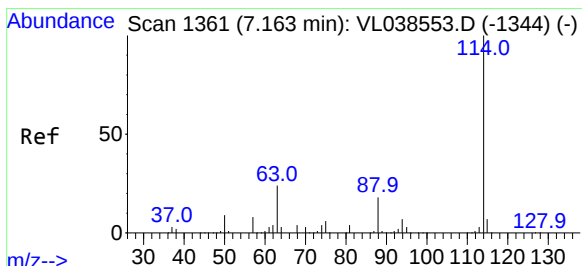
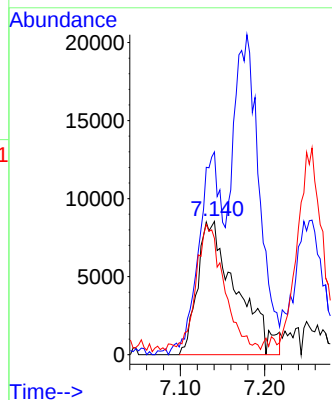
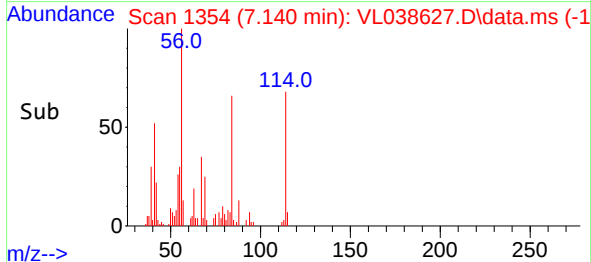
Instrument :
MSVOA_L
ClientSampleId :
IA-1A



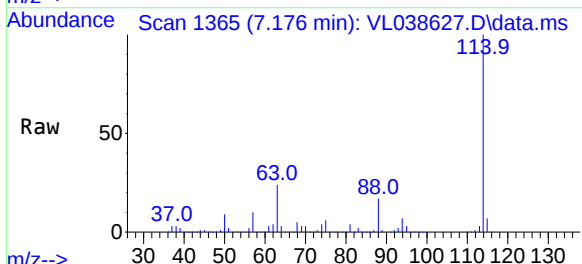
Tgt Ion: 84 Resp: 27750
Ion Ratio Lower Upper
84 100
56 0.0 111.4 167.0
41 71.2 65.5 98.3

Manual Integrations
APPROVED

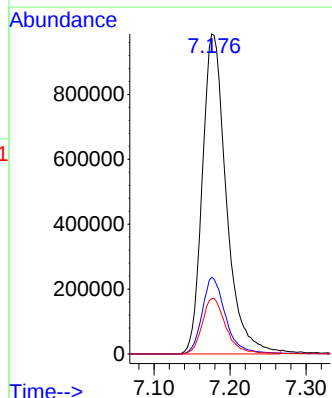
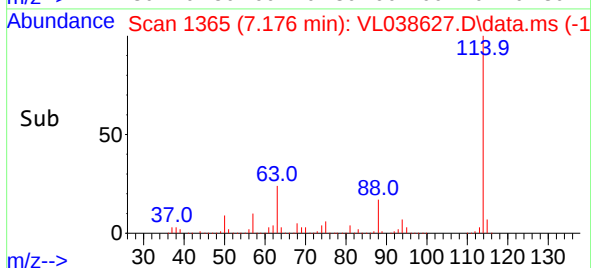
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022

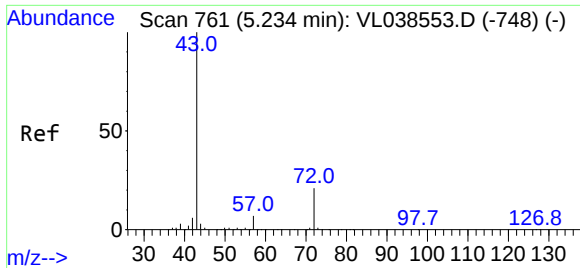


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.176 min Scan# 1365
Delta R.T. 0.013 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33



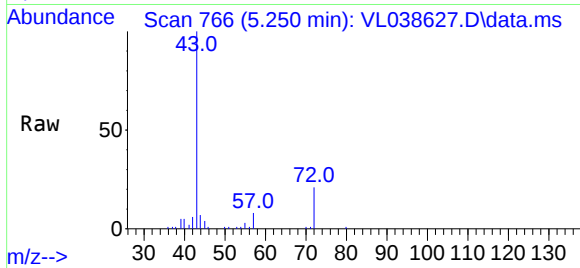
Tgt Ion:114 Resp: 2160405
Ion Ratio Lower Upper
114 100
63 23.7 19.6 29.4
88 17.3 13.9 20.9





#34
2-Butanone
Concen: 1.007 ppbv
RT: 5.250 min Scan# 761
Delta R.T. 0.016 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

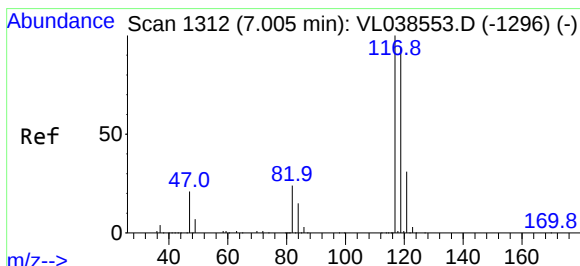
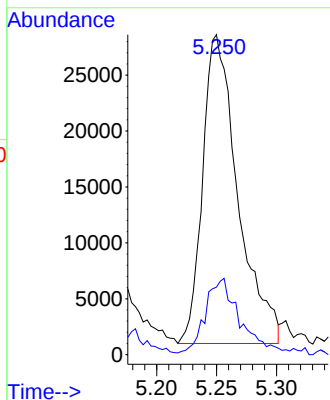
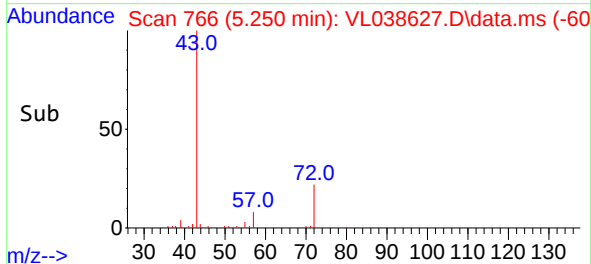
Instrument :
MSVOA_L
ClientSampleId :
IA-1A



Tgt Ion: 43 Resp: 5638
Ion Ratio Lower Upper
43 100
72 25.5 17.8 26.6

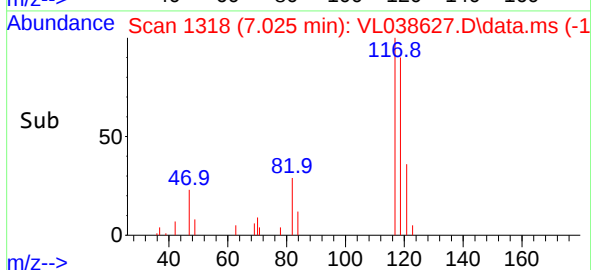
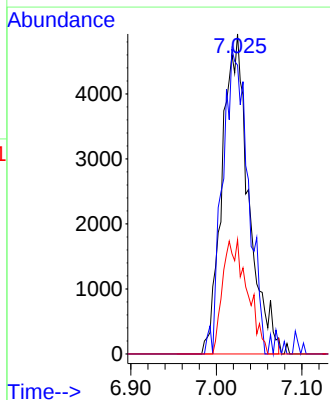
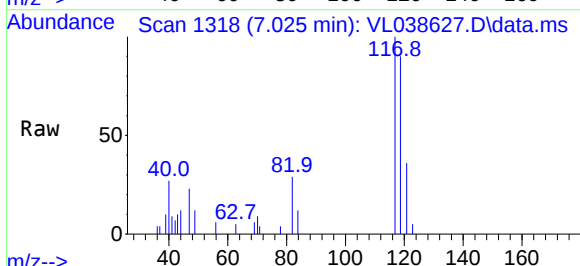
Manual Integrations
APPROVED

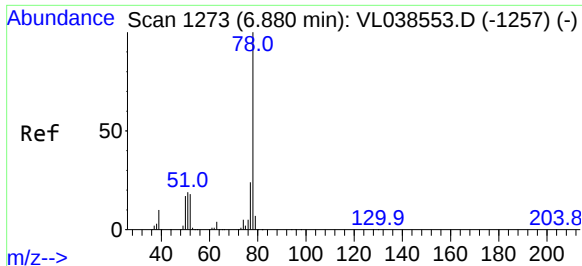
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#35
Carbon Tetrachloride
Concen: 0.072 ppbv m
RT: 7.025 min Scan# 1318
Delta R.T. 0.019 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

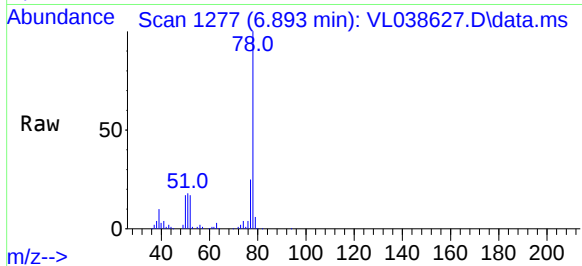
Tgt Ion:117 Resp: 10609
Ion Ratio Lower Upper
117 100
119 90.3 75.2 112.8
121 35.7 24.8 37.2





#36
Benzene
Concen: 0.816 ppbv
RT: 6.893 min Scan# 15907
Delta R.T. 0.013 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

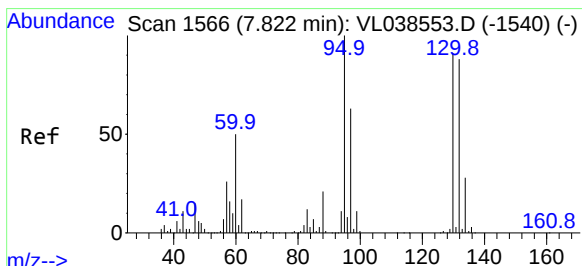
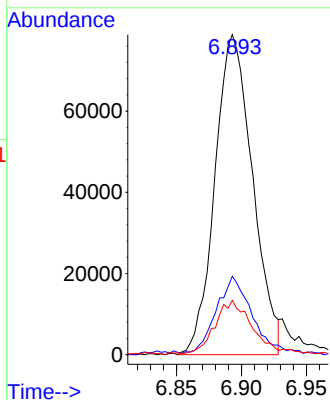
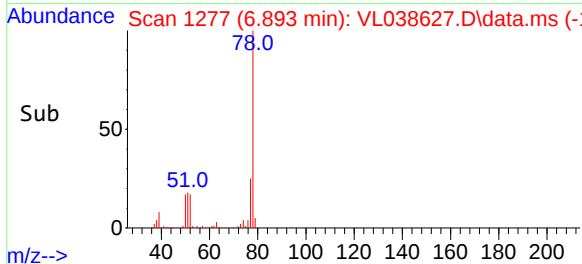
Instrument :
MSVOA_L
ClientSampleId :
IA-1A



Tgt Ion: 78 Resp: 15907
Ion Ratio Lower Upper
78 100
77 23.8 19.0 28.4
50 15.6 13.9 20.9

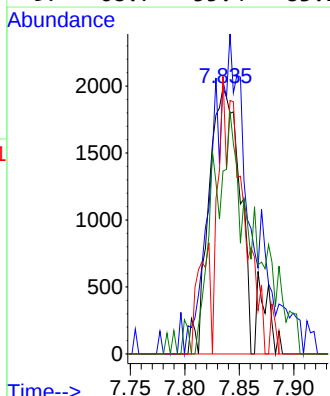
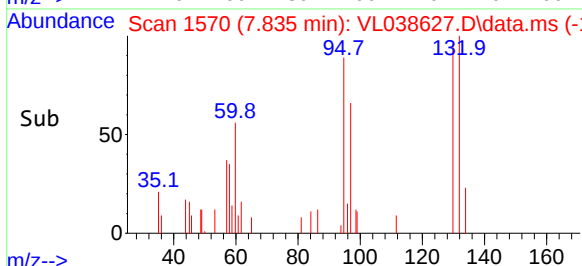
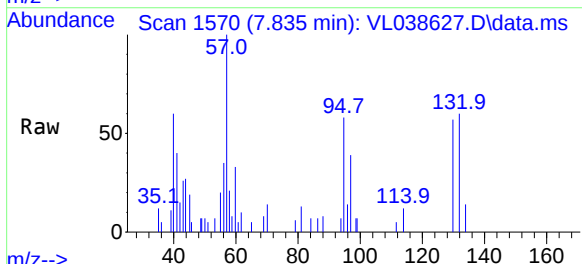
Manual Integrations
APPROVED

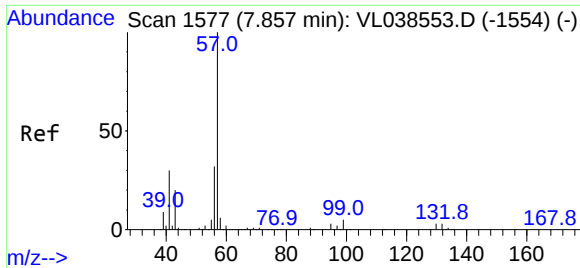
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#38
Trichloroethene
Concen: 0.056 ppbv m
RT: 7.835 min Scan# 1570
Delta R.T. 0.013 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

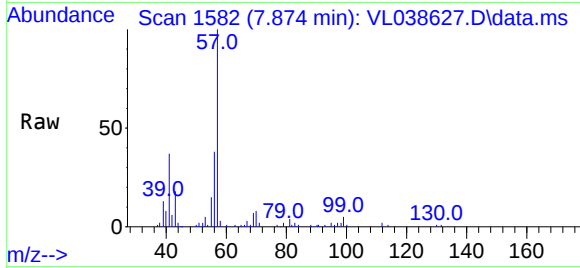
Tgt Ion:130 Resp: 4334
Ion Ratio Lower Upper
130 100
95 102.4 87.8 131.8
132 104.3 77.5 116.3
97 68.7 55.4 83.2





#44
2,2,4-Trimethylpentane
Concen: 0.287 ppbv
RT: 7.874 min Scan# 1582
Delta R.T. 0.016 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

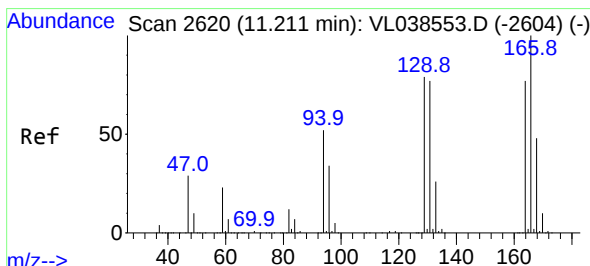
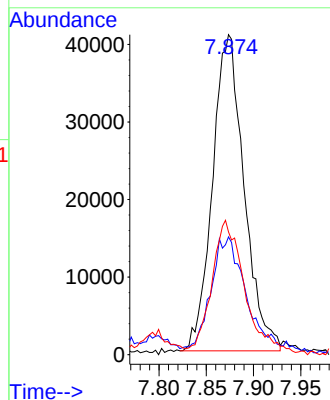
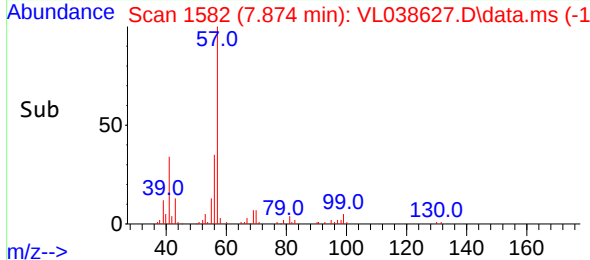
Instrument :
MSVOA_L
ClientSampleId :
IA-1A



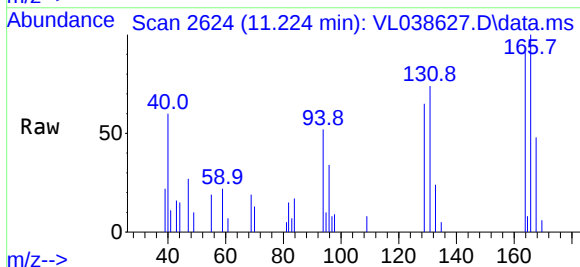
Tgt Ion: 57 Resp: 9466
Ion Ratio Lower Upper
57 100
41 42.9 24.0 36.0
56 45.6 25.6 38.4

Manual Integrations
APPROVED

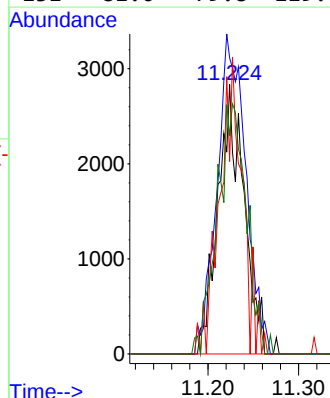
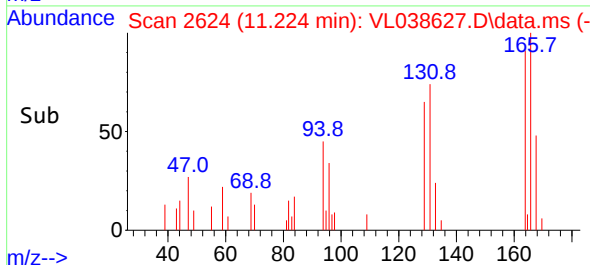
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022

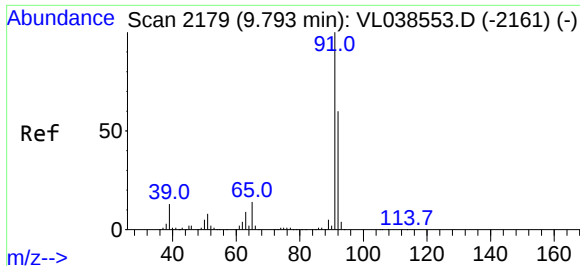


#52
Tetrachloroethene
Concen: 0.079 ppbv m
RT: 11.224 min Scan# 2624
Delta R.T. 0.013 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33



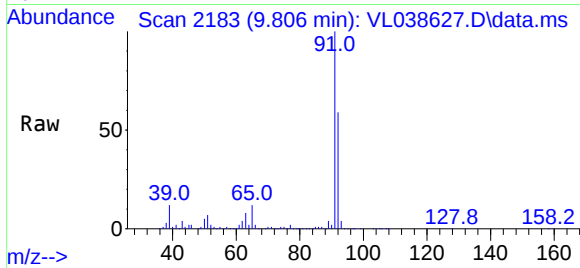
Tgt Ion:164 Resp: 5657
Ion Ratio Lower Upper
164 100
166 109.8 103.4 155.2
129 71.4 81.3 121.9
131 81.0 79.8 119.8





#53
Toluene
Concen: 4.432 ppbv
RT: 9.806 min Scan# 2179
Delta R.T. 0.013 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

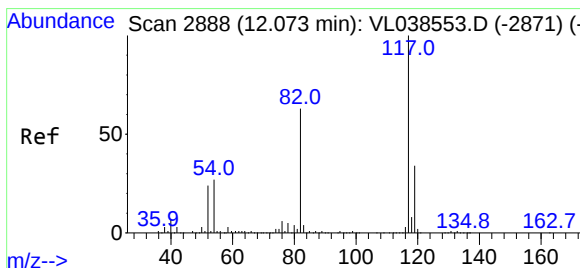
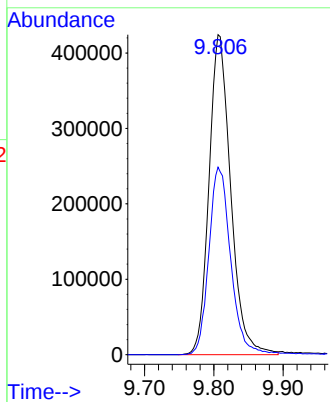
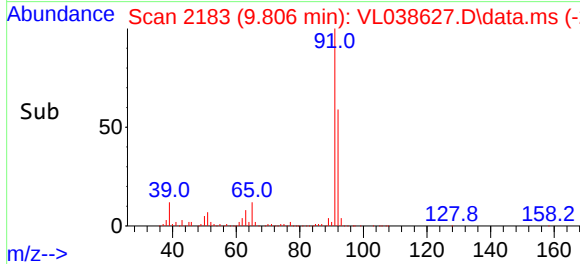
Instrument :
MSVOA_L
ClientSampleId :
IA-1A



Tgt Ion: 91 Resp: 92233
Ion Ratio Lower Upper
91 100
92 59.9 48.1 72.1

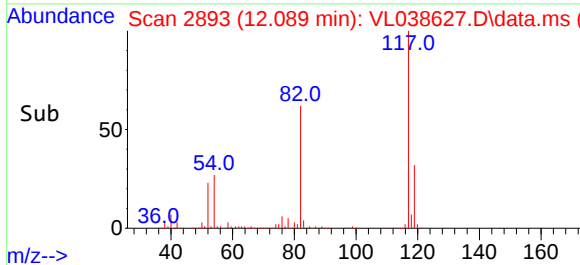
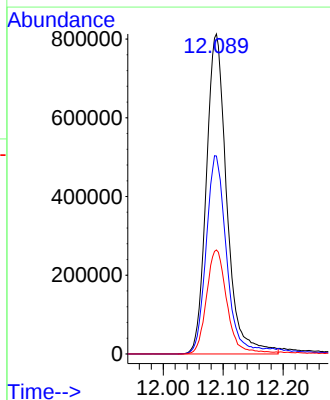
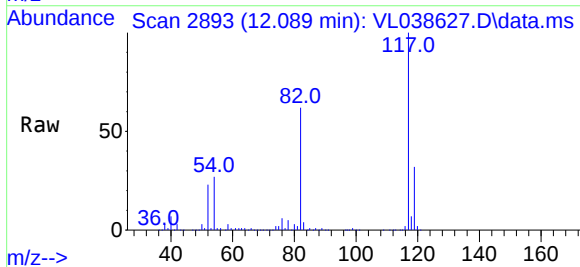
Manual Integrations
APPROVED

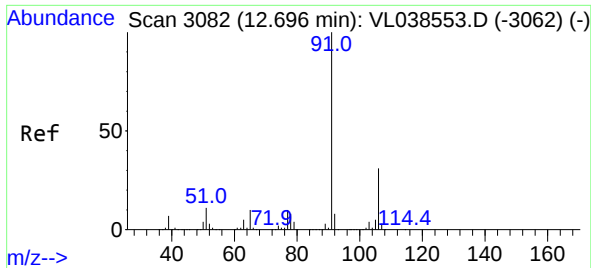
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.089 min Scan# 2893
Delta R.T. 0.016 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Tgt Ion:117 Resp: 1929041
Ion Ratio Lower Upper
117 100
82 64.9 52.5 78.7
119 33.4 46.4 69.6#





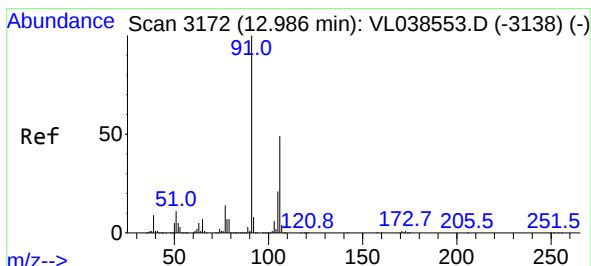
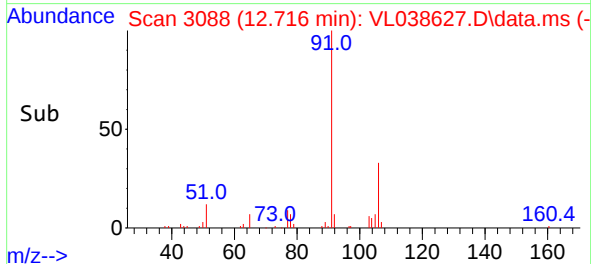
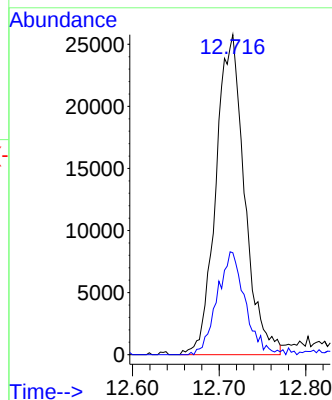
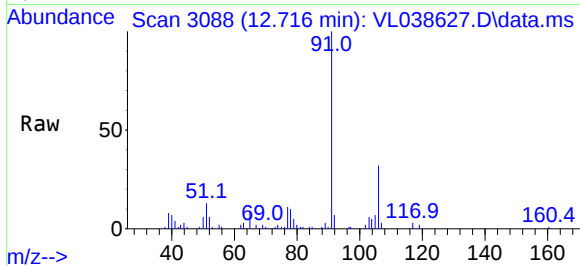
#58
Ethyl Benzene
Concen: 0.237 ppbv
RT: 12.716 min Scan# 3088
Delta R.T. 0.019 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Instrument :
MSVOA_L
ClientSampleId :
IA-1A

Tgt Ion: 91 Resp: 59234
Ion Ratio Lower Upper
91 100
106 31.9 24.6 37.0

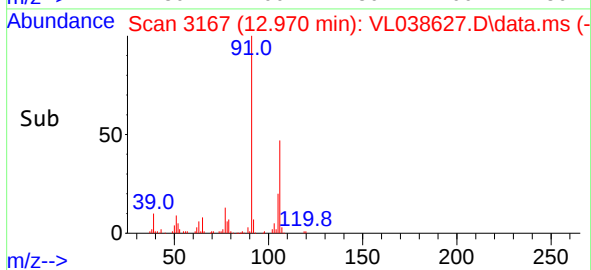
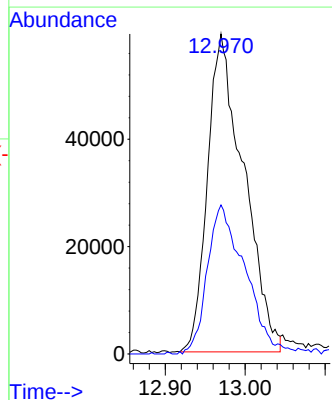
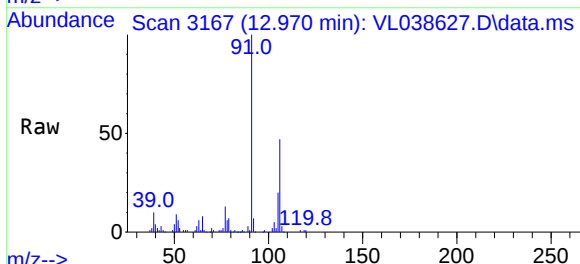
Manual Integrations
APPROVED

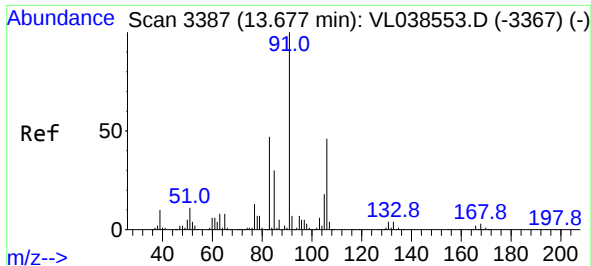
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#59
m/p-Xylene
Concen: 0.871 ppbv
RT: 12.970 min Scan# 3167
Delta R.T. -0.016 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Tgt Ion: 91 Resp: 186281
Ion Ratio Lower Upper
91 100
106 49.3 37.1 55.7





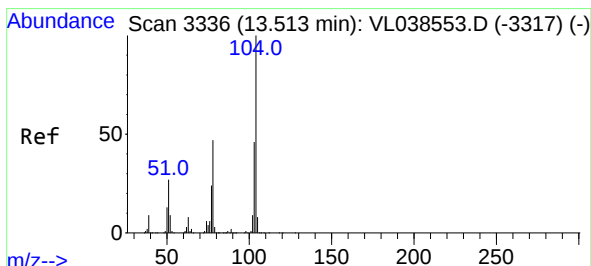
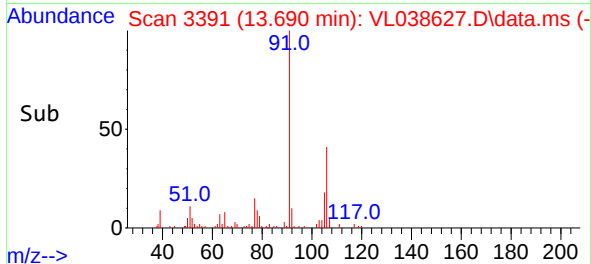
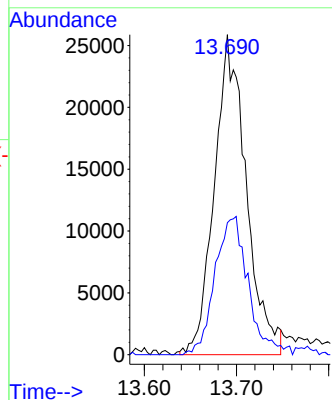
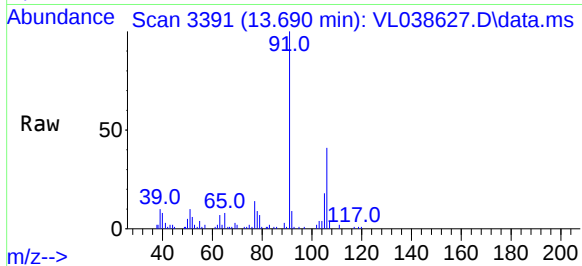
#60
o-Xylene
Concen: 0.307 ppbv m
RT: 13.690 min Scan# 3391
Delta R.T. 0.013 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

Instrument :
MSVOA_L
ClientSampleId :
IA-1A

Tgt Ion: 91 Resp: 62038
Ion Ratio Lower Upper
91 100
106 46.5 23.5 70.6

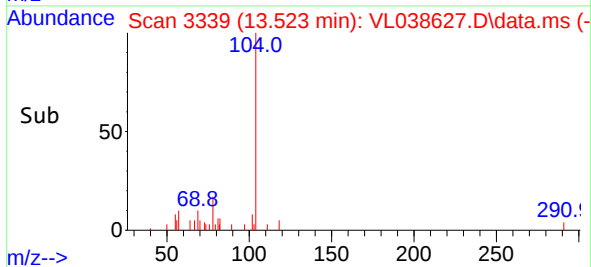
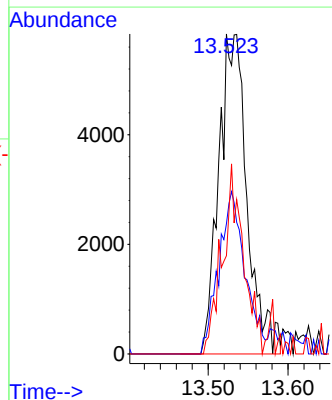
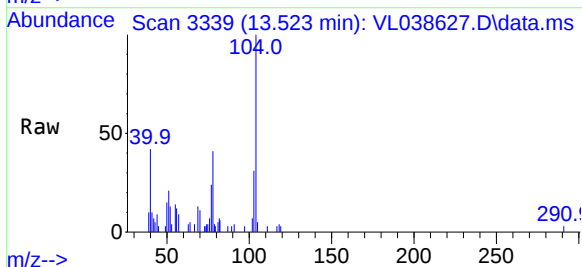
Manual Integrations
APPROVED

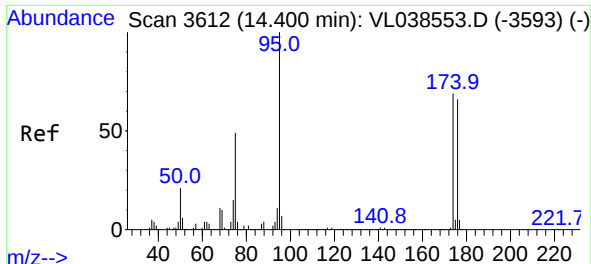
Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#61
Styrene
Concen: 0.145 ppbv m
RT: 13.523 min Scan# 3339
Delta R.T. 0.010 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

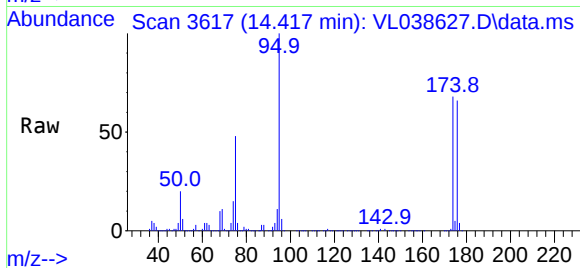
Tgt Ion:104 Resp: 14442
Ion Ratio Lower Upper
104 100
78 50.8 39.0 58.4
103 44.4 38.0 57.0





#68
1-Bromo-4-Fluorobenzene
Concen: 9.150 ppbv
RT: 14.417 min Scan# 30
Delta R.T. 0.016 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33

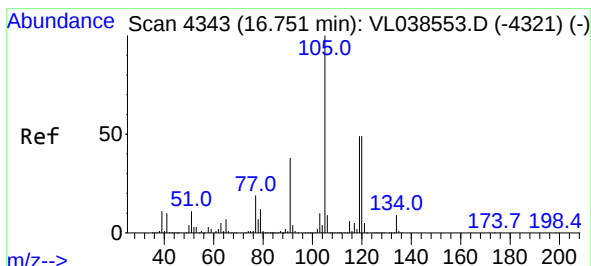
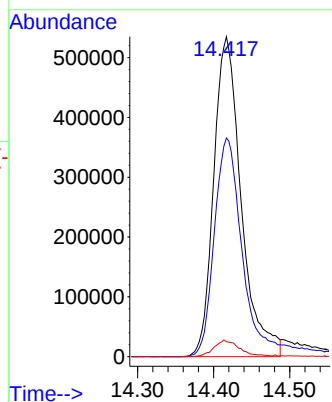
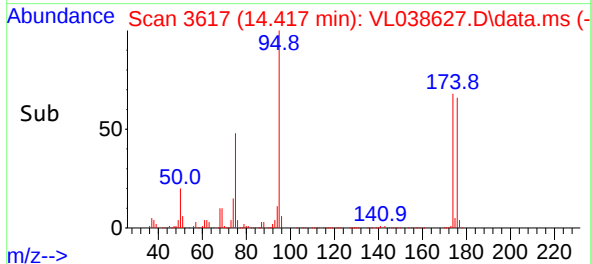
Instrument :
MSVOA_L
ClientSampleId :
IA-1A



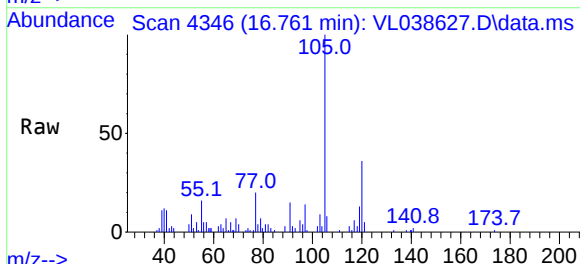
Tgt Ion: 95 Resp: 1341910
Ion Ratio Lower Upper
95 100
174 74.4 56.2 84.4
175 5.3 4.2 6.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/19/2022
Supervised By :Mahesh Dadoda 03/21/2022



#74
1,2,4-Trimethylbenzene
Concen: 0.202 ppbv m
RT: 16.761 min Scan# 4346
Delta R.T. 0.010 min
Lab File: VL038627.D
Acq: 17 Mar 2022 15:33



Tgt Ion:105 Resp: 46541
Ion Ratio Lower Upper
105 100
120 35.6 38.9 58.3#
91 14.5 30.6 46.0#
77 19.6 15.2 22.8

