

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040699.D
 Acq On : 18 Sep 2023 15:03
 Operator : SY/MD
 Sample : 04402-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023

Quant Time: Sep 19 05:18:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

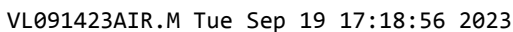
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.211	49	918562	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.671	114	2571613	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.484	117	2124310	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.796	95	1565196	9.536	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	112424	0.555	ppbv	98
3) Chlorodifluoromethane	2.690	51	54767m	0.366	ppbv	
4) Chloromethane	2.832	50	35264	0.616	ppbv	98
9) Propene	2.719	41	57172m	1.326	ppbv	
10) Heptane	7.597	43	23645m	0.243	ppbv	
11) Trichlorofluoromethane	3.581	101	48316	0.272	ppbv	96
13) Ethanol	3.259	45	235953m	18.492	ppbv	
15) Acetone	3.488	43	829813m	6.849	ppbv	
19) Isopropyl Alcohol	3.603	45	131646m	1.803	ppbv	
20) Methylene Chloride	3.951	84	231918	3.556	ppbv	94
26) Hexane	5.230	57	550315	5.956	ppbv #	41
29) Chloroform	5.288	83	20085m	0.126	ppbv	
30) Cyclohexane	6.629	84	12480m	0.179	ppbv	
34) 2-Butanone	4.812	43	57368	0.444	ppbv	94
35) Carbon Tetrachloride	6.507	117	13910	0.079	ppbv #	60
36) Benzene	6.388	78	113416	0.596	ppbv #	92
44) 2,2,4-Trimethylpentane	7.346	57	264433	0.872	ppbv #	88
53) Toluene	9.240	91	601341	2.991	ppbv	98
59) m/p-Xylene	12.365	91	48694m	0.214	ppbv	
60) o-Xylene	13.069	91	24088m	0.111	ppbv	
74) 1,2,4-Trimethylbenzene	16.124	105	40237m	0.151	ppbv	

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

Manual Integrations

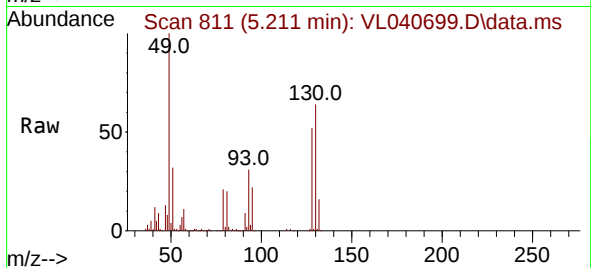
Quant Time: Sep 19 05:18:33 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Sep 19 05:12:43 2023
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

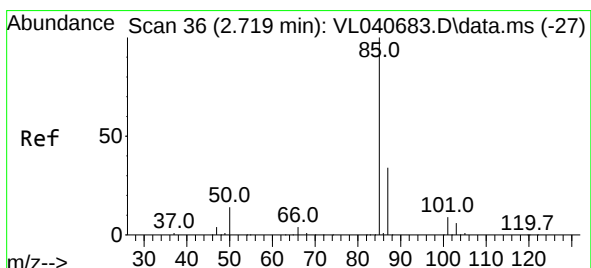
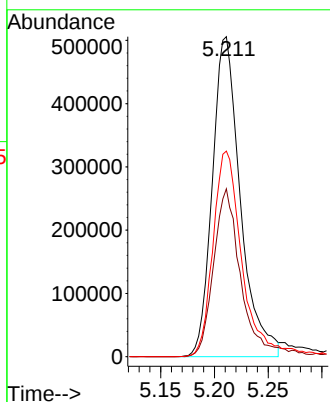
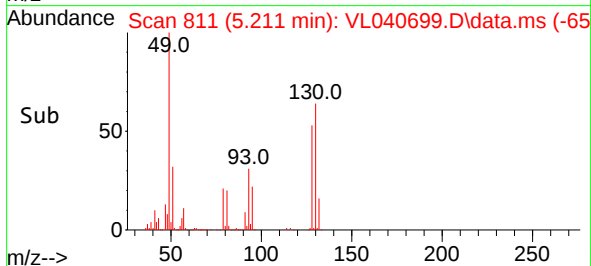
Instrument :
MSVOA_L
ClientSampleId :
ST-1



Tgt Ion: 49 Resp: 918562
Ion Ratio Lower Upper
49 100
128 52.1 25.4 76.0
130 67.8 32.3 96.8

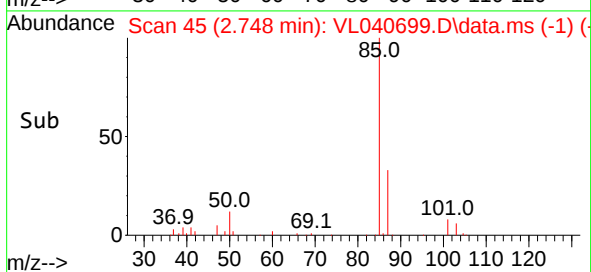
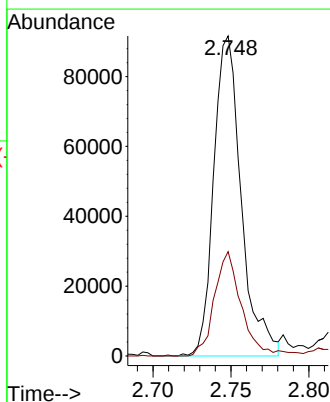
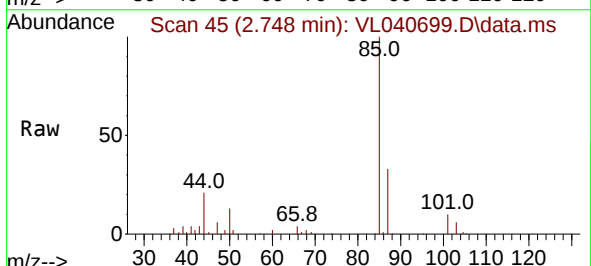
Manual Integrations
APPROVED

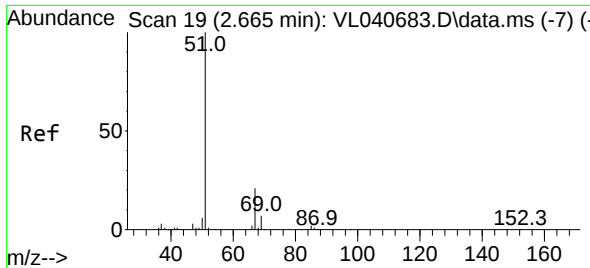
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#2
Dichlorodifluoromethane
Concen: 0.555 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.016 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

Tgt Ion: 85 Resp: 112424
Ion Ratio Lower Upper
85 100
87 32.6 27.2 40.8





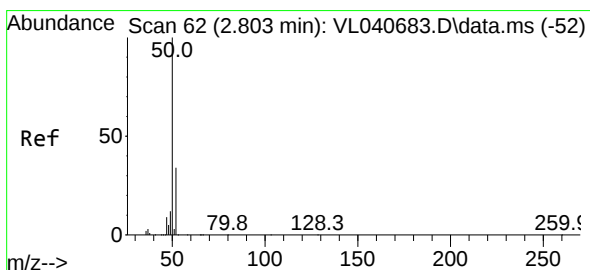
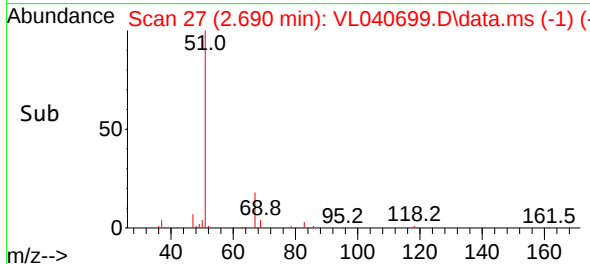
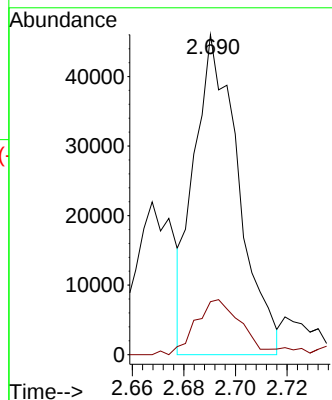
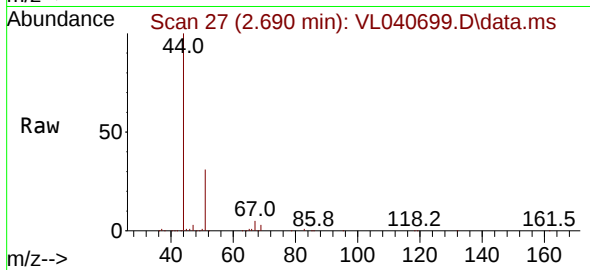
#3
Chlorodifluoromethane
Concen: 0.366 ppbv m
RT: 2.690 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

Instrument :
MSVOA_L
ClientSampleId :
ST-1

Tgt Ion: 51 Resp: 5476
Ion Ratio Lower Upper
51 100
67 20.6 16.7 25.1

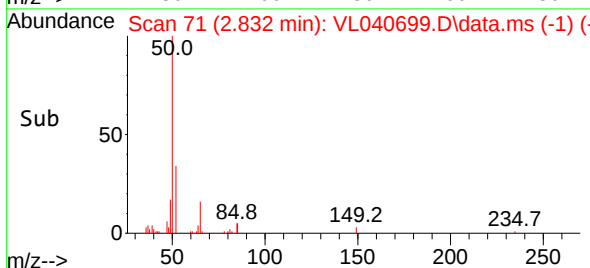
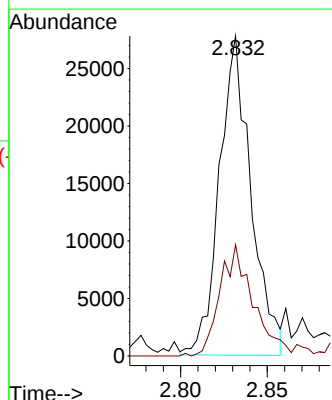
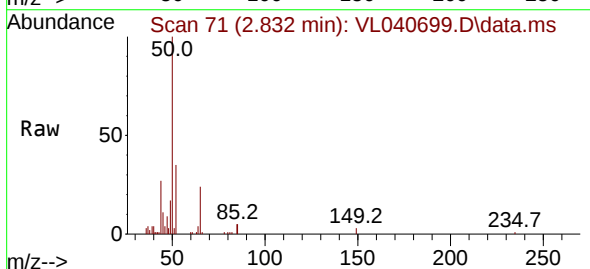
Manual Integrations
APPROVED

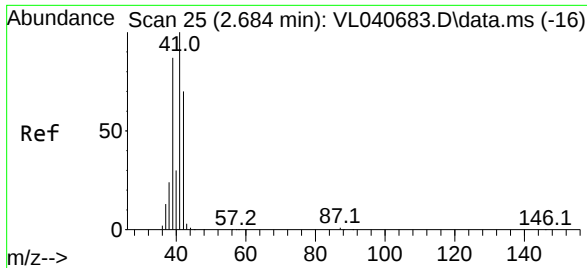
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#4
Chloromethane
Concen: 0.616 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

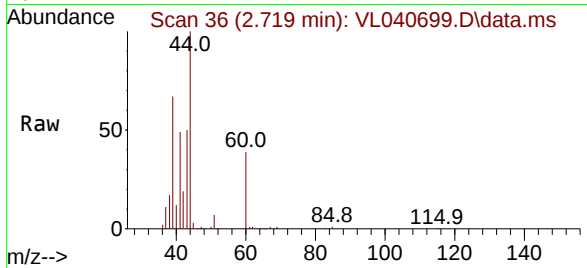
Tgt Ion: 50 Resp: 35264
Ion Ratio Lower Upper
50 100
52 35.2 27.1 40.7





#9
 Propene
 Concen: 1.326 ppbv m
 RT: 2.719 min Scan# 30
 Delta R.T. 0.023 min
 Lab File: VL040699.D
 Acq: 18 Sep 2023 15:03

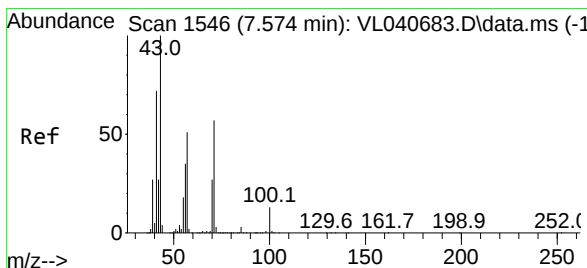
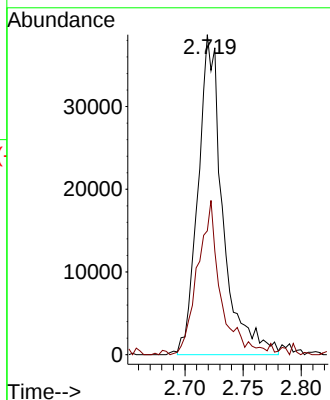
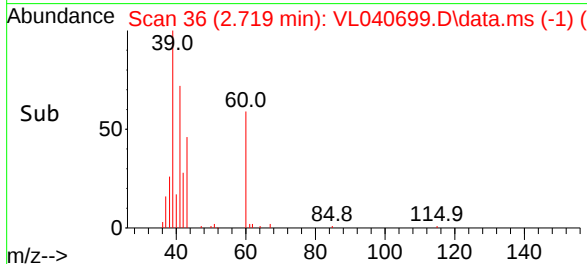
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-1



Tgt Ion: 41 Resp: 57172
 Ion Ratio Lower Upper
 41 100
 42 94.5 56.7 85.1

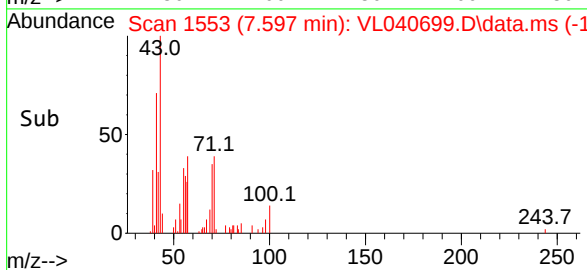
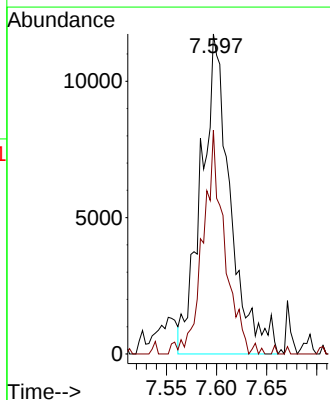
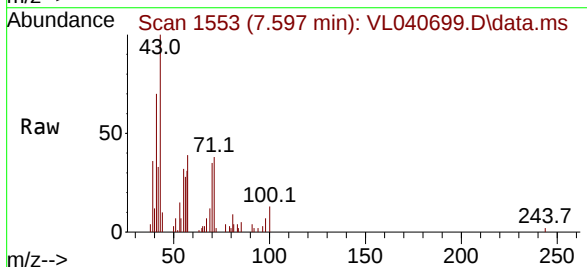
Manual Integrations
 APPROVED

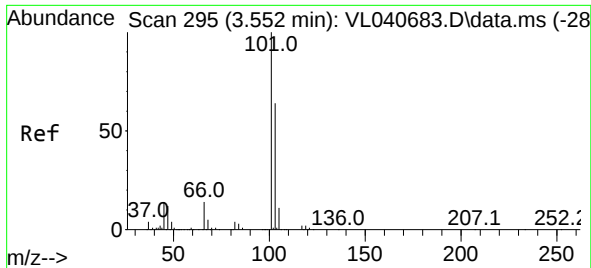
Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023



#10
 Heptane
 Concen: 0.243 ppbv m
 RT: 7.597 min Scan# 1553
 Delta R.T. 0.010 min
 Lab File: VL040699.D
 Acq: 18 Sep 2023 15:03

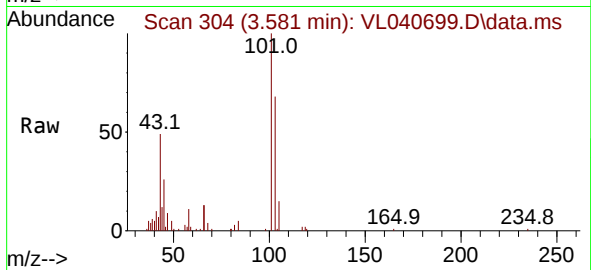
Tgt Ion: 43 Resp: 23645
 Ion Ratio Lower Upper
 43 100
 57 52.3 41.8 62.6





#11
 Trichlorofluoromethane
 Concen: 0.272 ppbv
 RT: 3.581 min Scan# 304
 Delta R.T. 0.013 min
 Lab File: VL040699.D
 Acq: 18 Sep 2023 15:03

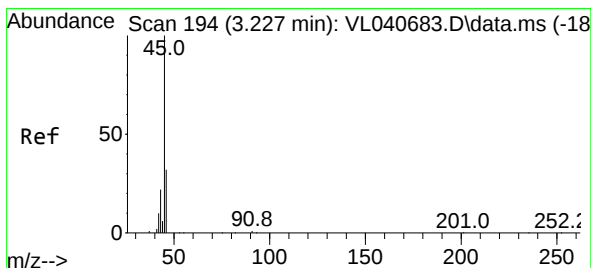
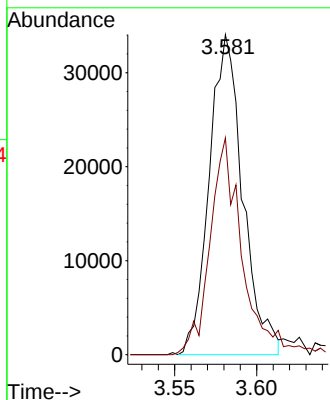
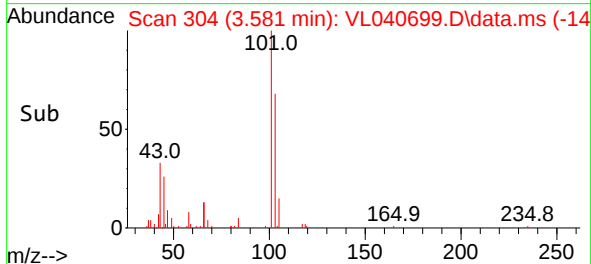
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-1



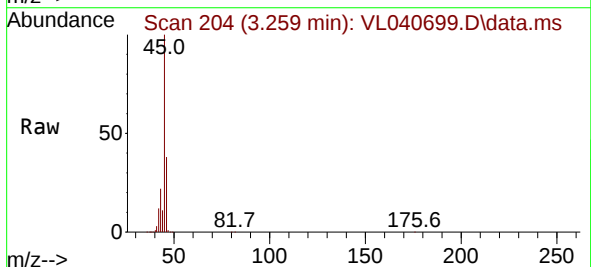
Tgt Ion:101 Resp: 48310
 Ion Ratio Lower Upper
 101 100
 103 67.1 51.3 76.9

Manual Integrations
 APPROVED

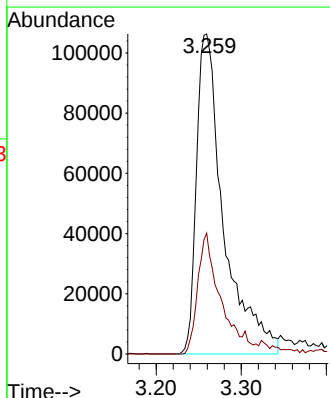
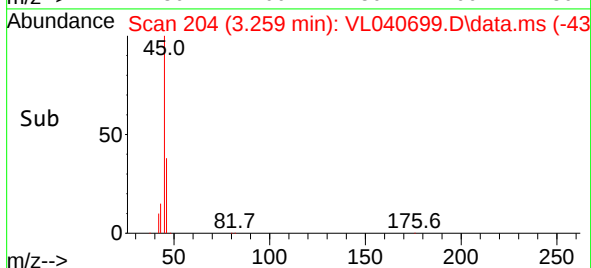
Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023

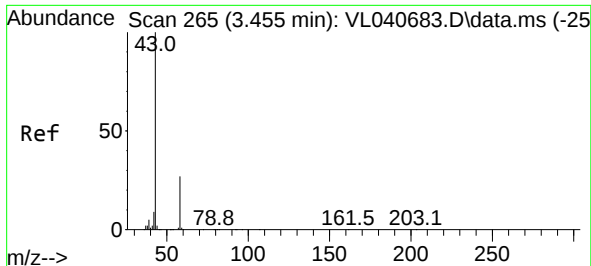


#13
 Ethanol
 Concen: 18.492 ppbv m
 RT: 3.259 min Scan# 204
 Delta R.T. 0.016 min
 Lab File: VL040699.D
 Acq: 18 Sep 2023 15:03



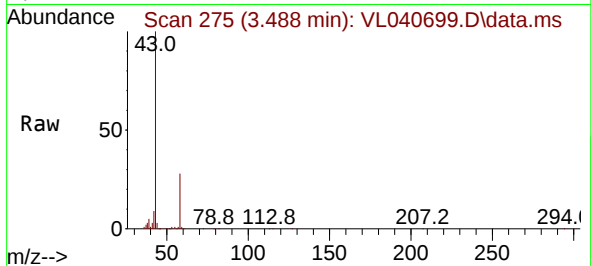
Tgt Ion: 45 Resp: 235953
 Ion Ratio Lower Upper
 45 100
 46 34.8 15.2 61.0





#15
Acetone
Concen: 6.849 ppbv m
RT: 3.488 min Scan# 211
Delta R.T. 0.016 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

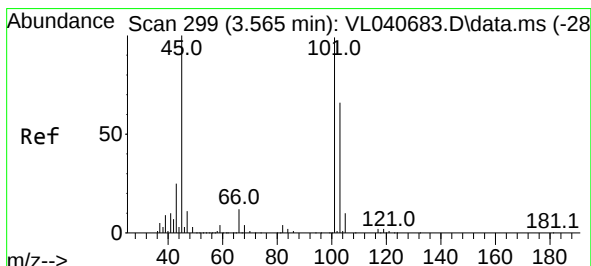
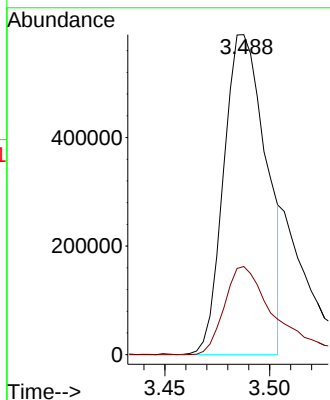
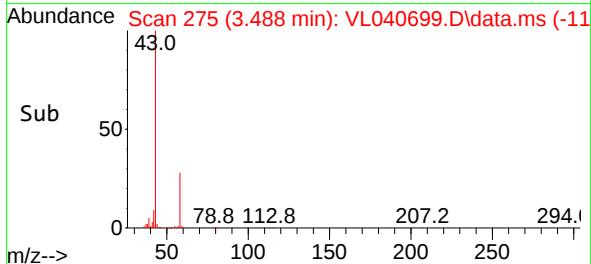
Instrument :
MSVOA_L
ClientSampleId :
ST-1



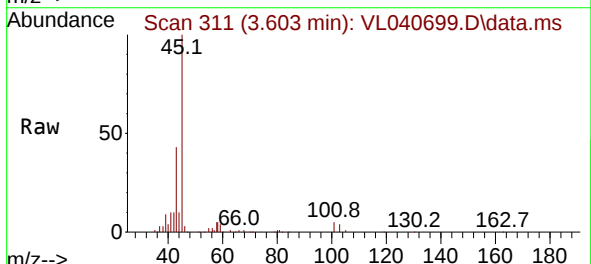
Tgt Ion: 43 Resp: 829811
Ion Ratio Lower Upper
43 100
58 36.7 22.6 34.0

Manual Integrations
APPROVED

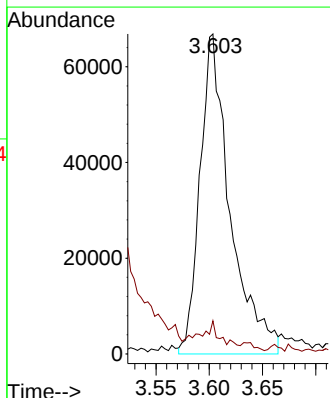
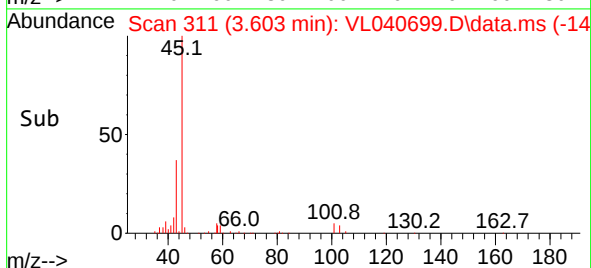
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

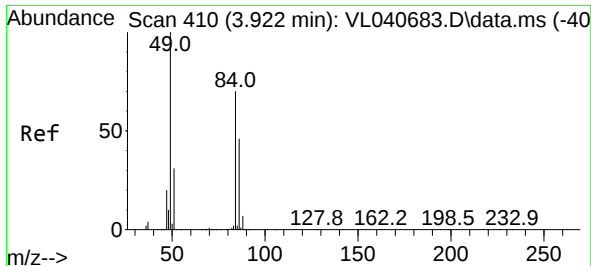


#19
Isopropyl Alcohol
Concen: 1.803 ppbv m
RT: 3.603 min Scan# 311
Delta R.T. 0.026 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03



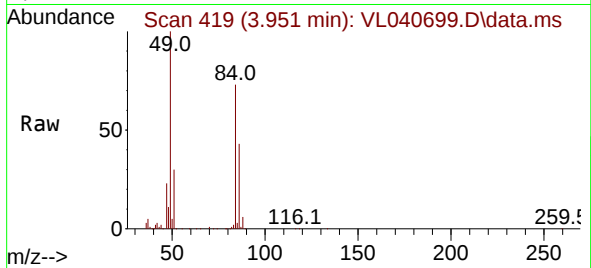
Tgt Ion: 45 Resp: 131646
Ion Ratio Lower Upper
45 100
58 231.1 1.9 2.9





#20
Methylene Chloride
Concen: 3.556 ppbv
RT: 3.951 min Scan# 419
Delta R.T. 0.013 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

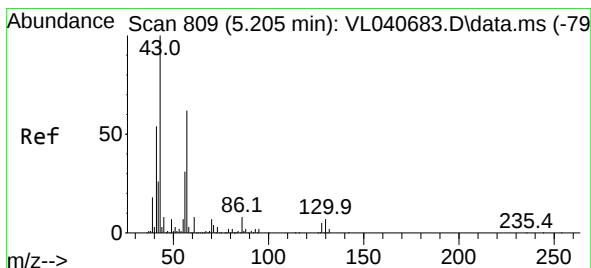
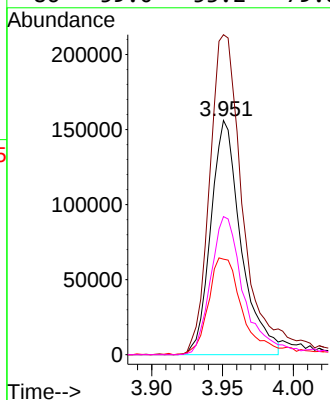
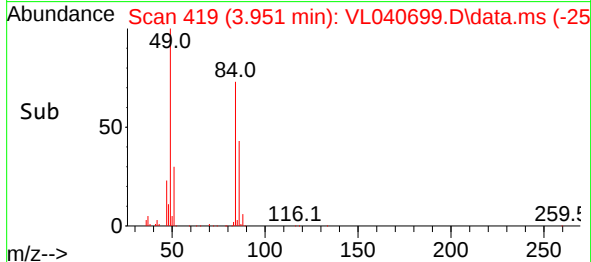
Instrument :
MSVOA_L
ClientSampleId :
ST-1



Tgt Ion: 84	Resp: 231918
Ion Ratio	Lower Upper
84	100
49	136.5 114.4 171.6
51	40.5 35.5 53.3
86	59.0 53.2 79.8

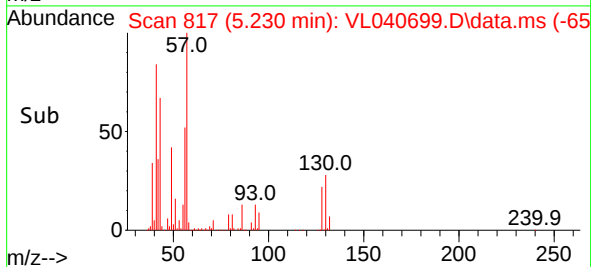
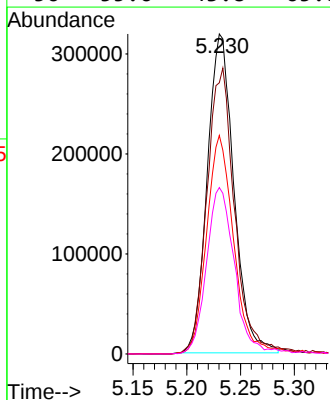
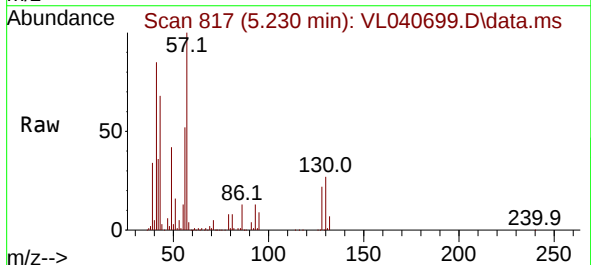
Manual Integrations
APPROVED

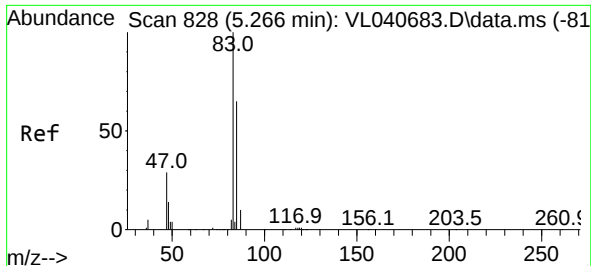
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#26
Hexane
Concen: 5.956 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.010 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

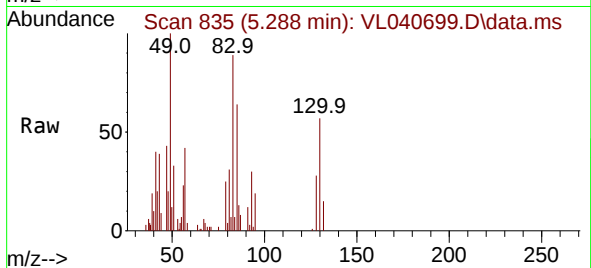
Tgt Ion: 57	Resp: 550315
Ion Ratio	Lower Upper
57	100
41	94.4 75.2 112.8
43	71.1 185.6 278.4#
56	55.6 43.8 65.8





#29
Chloroform
Concen: 0.126 ppbv m
RT: 5.288 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

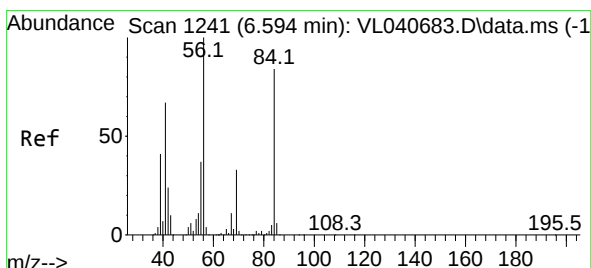
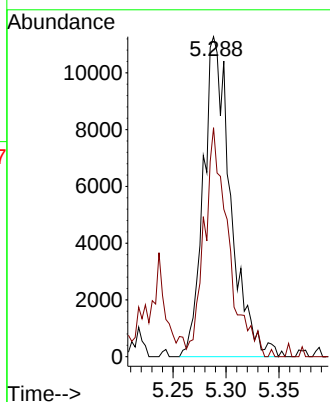
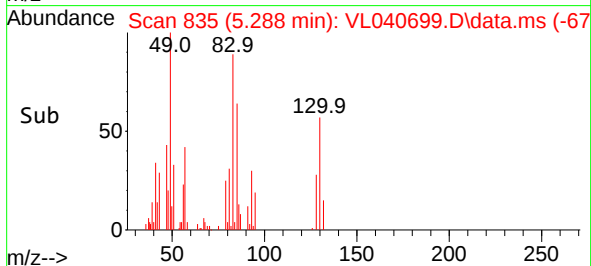
Instrument :
MSVOA_L
ClientSampleId :
ST-1



Tgt Ion: 83 Resp: 2008
Ion Ratio Lower Upper
83 100
85 71.5 51.8 77.8

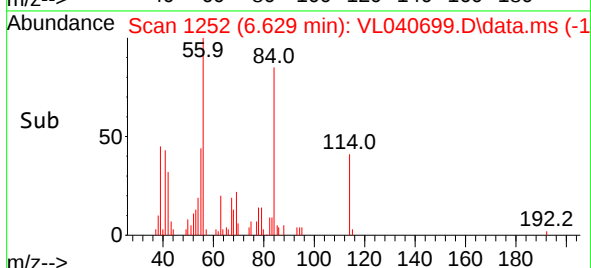
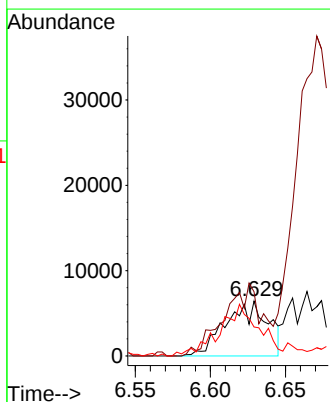
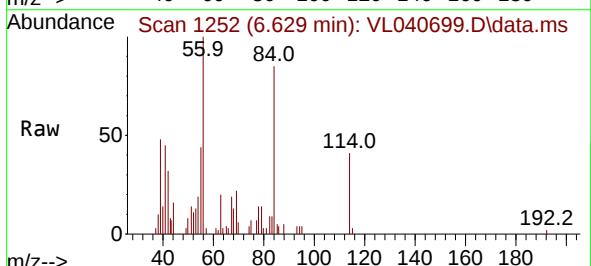
Manual Integrations
APPROVED

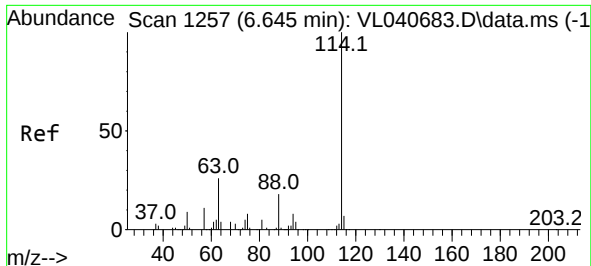
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#30
Cyclohexane
Concen: 0.179 ppbv m
RT: 6.629 min Scan# 1252
Delta R.T. 0.019 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

Tgt Ion: 84 Resp: 12480
Ion Ratio Lower Upper
84 100
56 0.0 103.2 154.8#
41 0.0 65.5 98.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 114

Delta R.T. 0.010 min

Lab File: VL040699.D

Acq: 18 Sep 2023 15:03

Instrument :

MSVOA_L

ClientSampleId :

ST-1

Tgt Ion:114 Resp: 257161

Ion Ratio Lower Upper

114 100

63 25.7 21.1 31.7

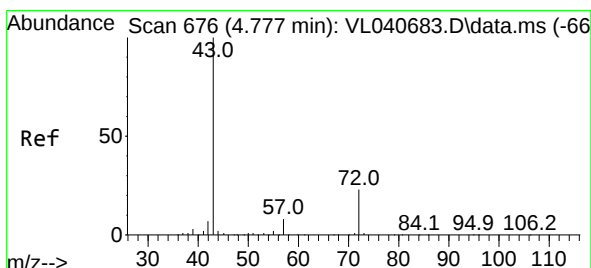
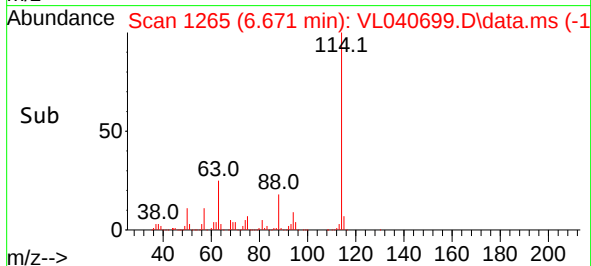
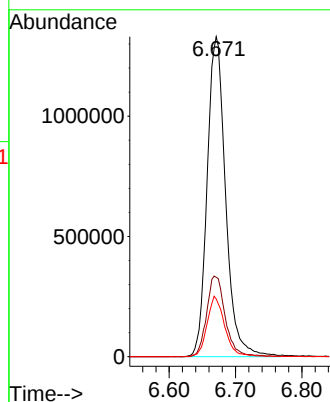
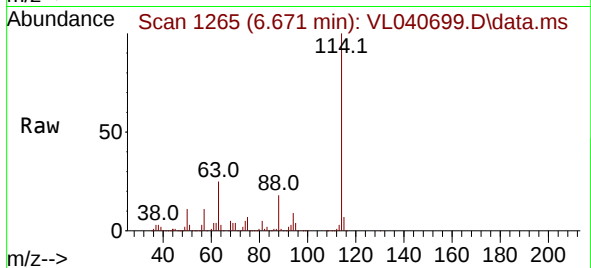
88 18.0 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023



#34

2-Butanone

Concen: 0.444 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.023 min

Lab File: VL040699.D

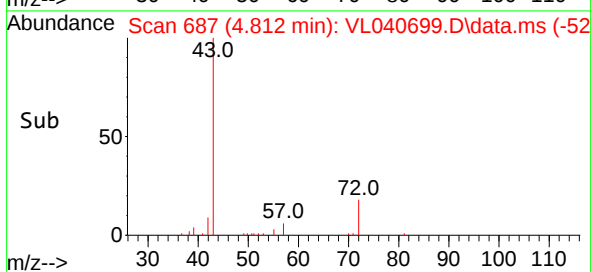
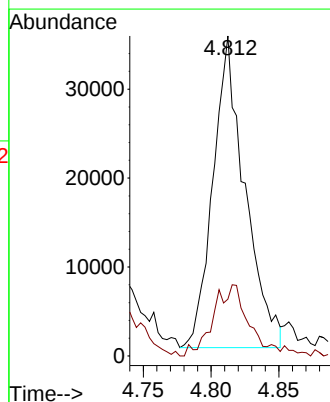
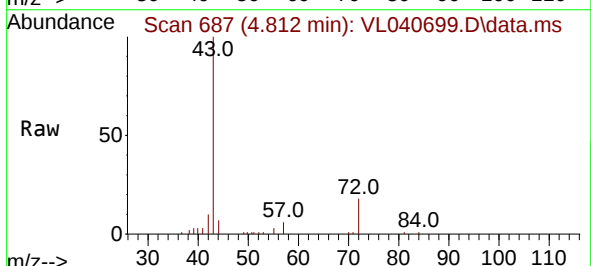
Acq: 18 Sep 2023 15:03

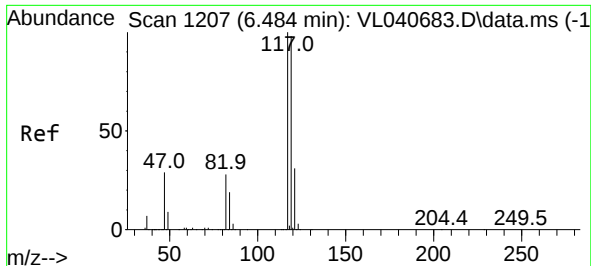
Tgt Ion: 43 Resp: 57368

Ion Ratio Lower Upper

43 100

72 26.2 18.6 27.8





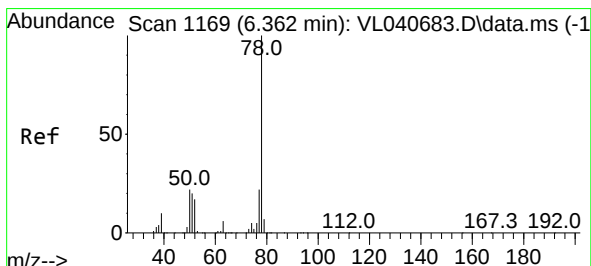
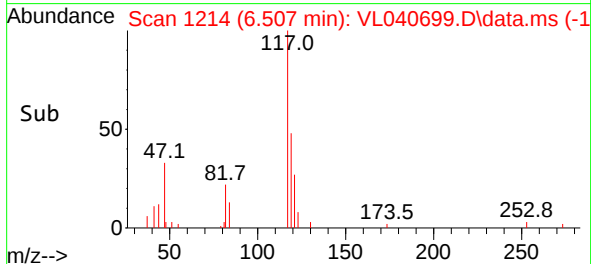
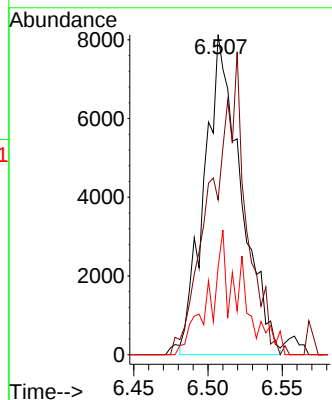
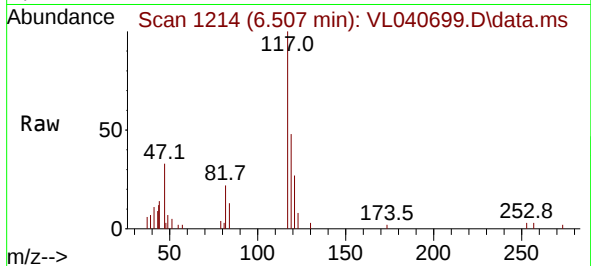
#35
Carbon Tetrachloride
Concen: 0.079 ppbv
RT: 6.507 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

Instrument :
MSVOA_L
ClientSampleId :
ST-1

Tgt Ion: 117 Resp: 13910
Ion Ratio Lower Upper
117 100
119 49.4 78.6 117.8
121 25.1 24.7 37.1

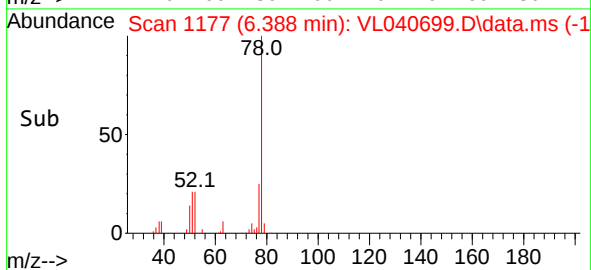
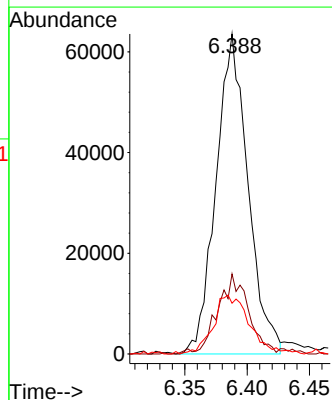
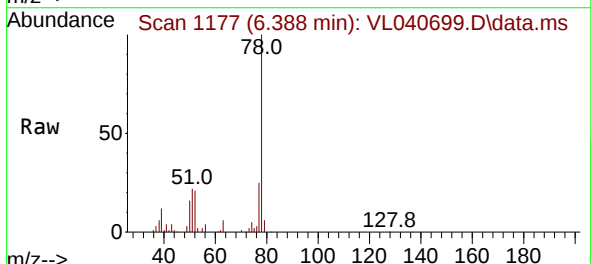
Manual Integrations
APPROVED

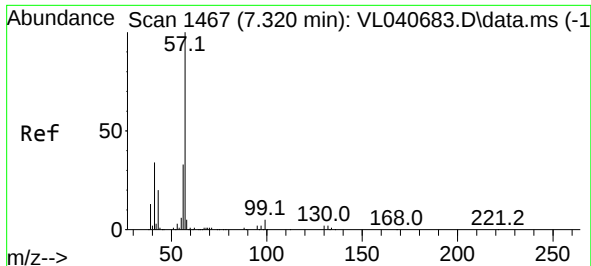
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#36
Benzene
Concen: 0.596 ppbv
RT: 6.388 min Scan# 1177
Delta R.T. 0.006 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

Tgt Ion: 78 Resp: 113416
Ion Ratio Lower Upper
78 100
77 24.6 17.9 26.9
50 15.9 17.3 25.9





#44

2,2,4-Trimethylpentane

Concen: 0.872 ppbv

RT: 7.346 min Scan# 1467

Delta R.T. 0.010 min

Lab File: VL040699.D

Acq: 18 Sep 2023 15:03

Instrument :

MSVOA_L

ClientSampleId :

ST-1

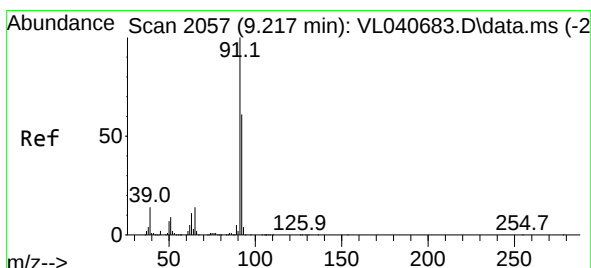
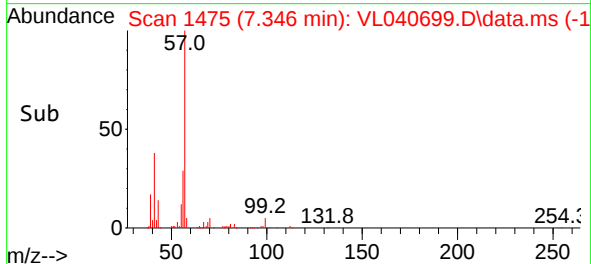
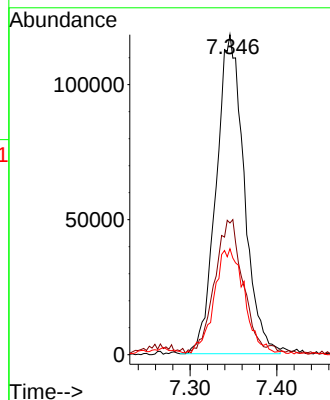
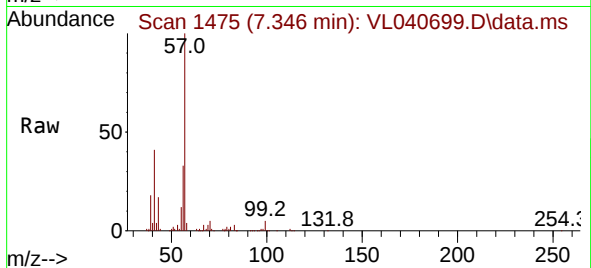
Tgt Ion: 57 Resp: 26443

Ion	Ratio	Lower	Upper
57	100		
41	44.0	28.5	42.7
56	37.2	25.4	38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#53

Toluene

Concen: 2.991 ppbv

RT: 9.240 min Scan# 2064

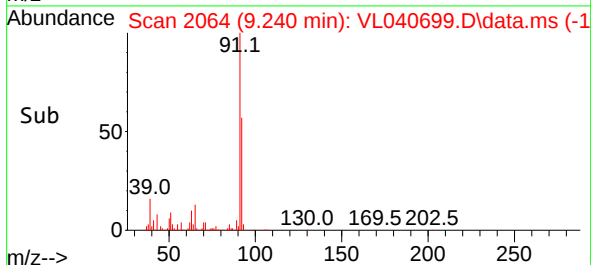
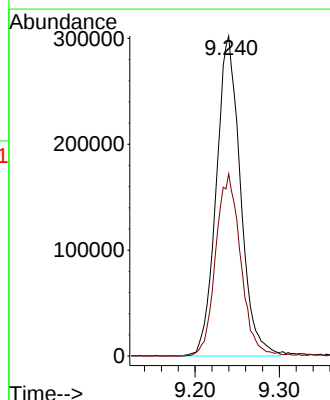
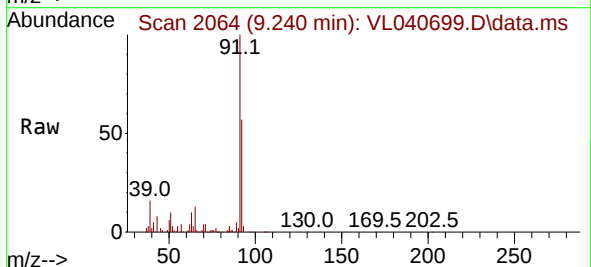
Delta R.T. 0.010 min

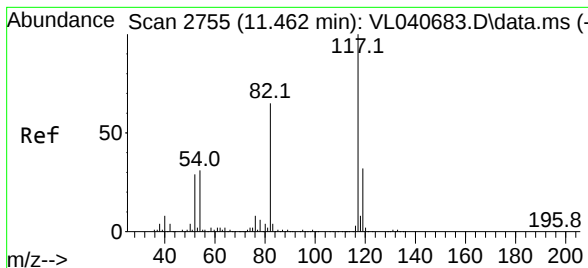
Lab File: VL040699.D

Acq: 18 Sep 2023 15:03

Tgt Ion: 91 Resp: 601341

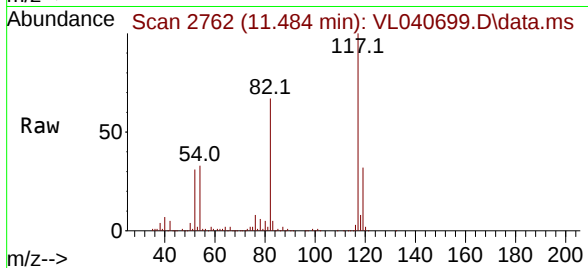
Ion	Ratio	Lower	Upper
91	100		
92	58.8	48.5	72.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

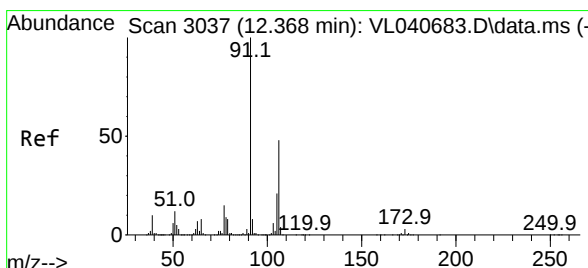
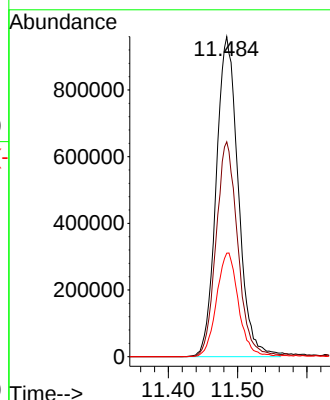
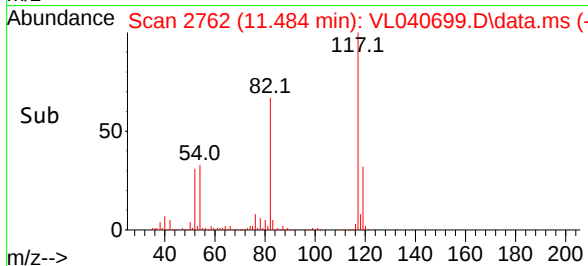
Instrument :
MSVOA_L
ClientSampleId :
ST-1



Tgt Ion: 117 Resp: 2124310
Ion Ratio Lower Upper
117 100
82 66.6 51.4 77.0
119 32.8 24.7 37.1

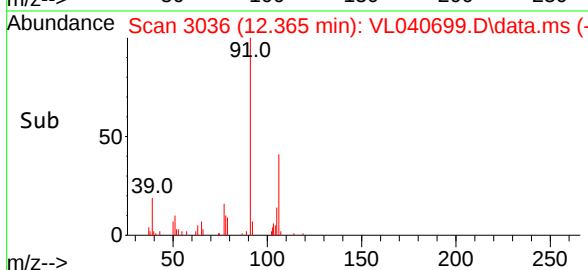
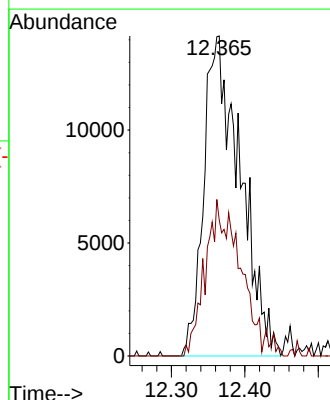
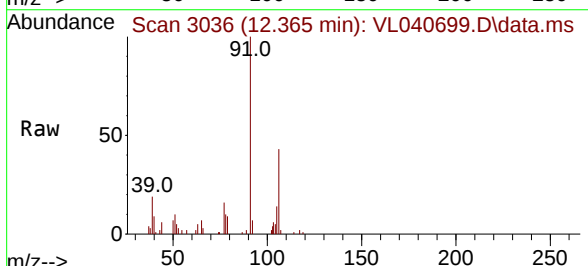
Manual Integrations
APPROVED

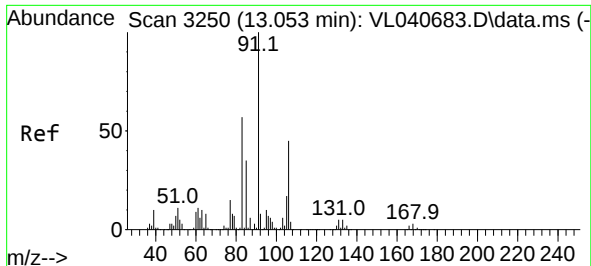
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#59
m/p-Xylene
Concen: 0.214 ppbv m
RT: 12.365 min Scan# 3036
Delta R.T. -0.016 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

Tgt Ion: 91 Resp: 48694
Ion Ratio Lower Upper
91 100
106 0.0 34.8 52.2#





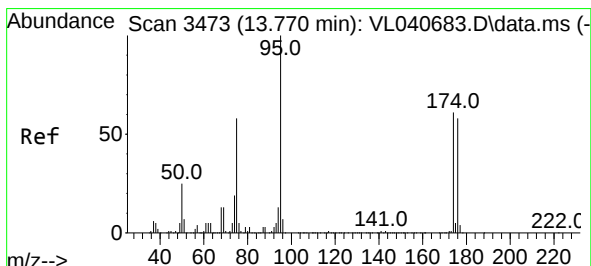
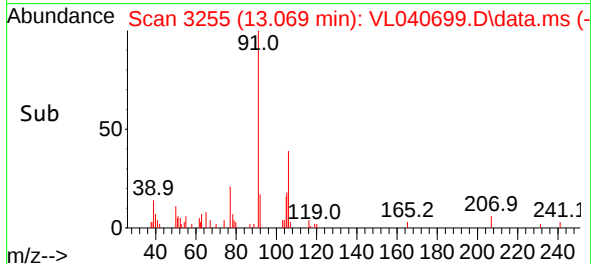
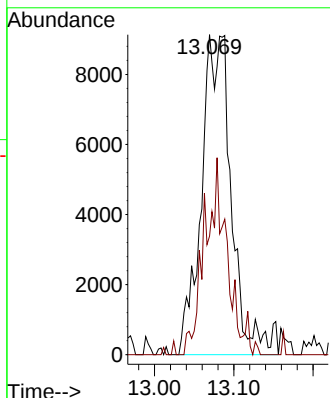
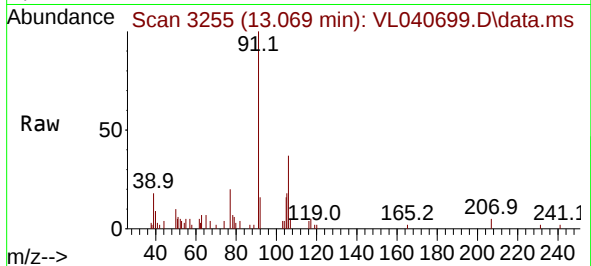
#60
o-Xylene
Concen: 0.111 ppbv m
RT: 13.069 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

Instrument :
MSVOA_L
ClientSampleId :
ST-1

Tgt Ion: 91 Resp: 2408
Ion Ratio Lower Upper
91 100
106 46.1 22.3 66.9

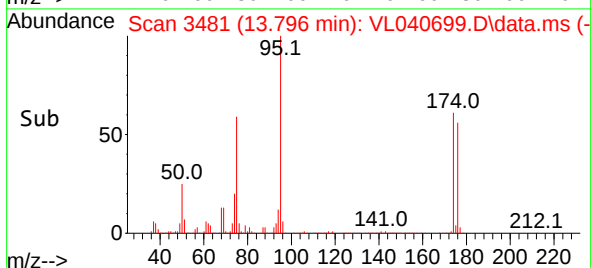
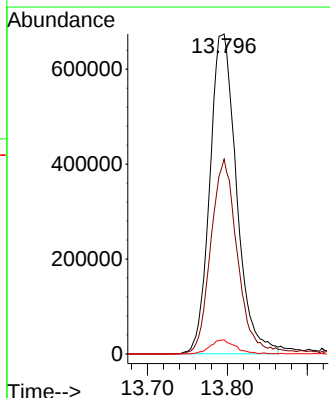
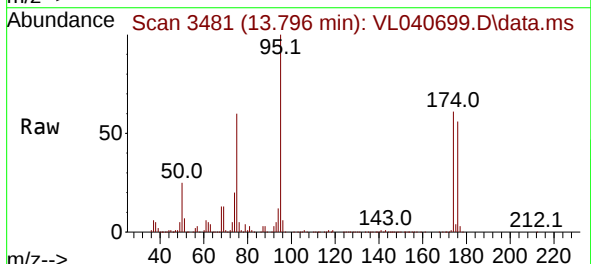
Manual Integrations
APPROVED

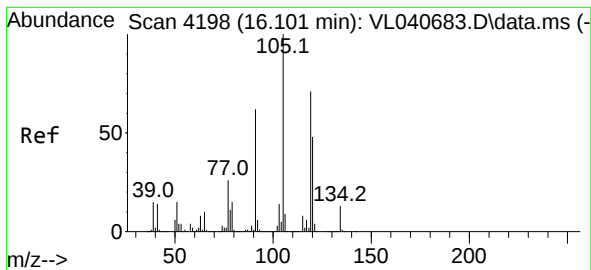
Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023



#68
1-Bromo-4-Fluorobenzene
Concen: 9.536 ppbv
RT: 13.796 min Scan# 3481
Delta R.T. 0.010 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

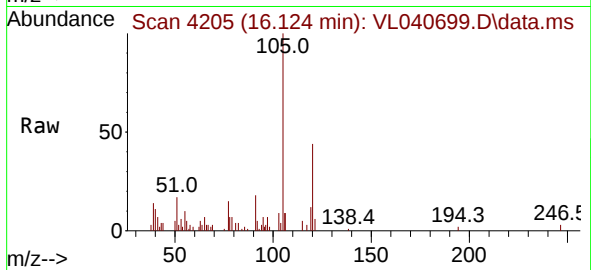
Tgt Ion: 95 Resp: 1565196
Ion Ratio Lower Upper
95 100
174 62.3 48.9 73.3
175 4.3 3.5 5.3





#74
1,2,4-Trimethylbenzene
Concen: 0.151 ppbv m
RT: 16.124 min Scan# 4198
Delta R.T. 0.006 min
Lab File: VL040699.D
Acq: 18 Sep 2023 15:03

Instrument :
MSVOA_L
ClientSampleId :
ST-1



Tgt Ion:	105	Resp:	4023
Ion	Ratio	Lower	Upper
105	100		
120	43.6	38.6	57.8
91	18.0	50.0	75.0
77	14.6	20.6	31.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/19/2023
Supervised By :Mahesh Dadoda 09/19/2023

