

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
 Data File : VL040703.D
 Acq On : 18 Sep 2023 17:44
 Operator : SY/MD
 Sample : 04402-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ST-4

Manual Integrations APPROVED

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

Quant Time: Sep 19 05:20:11 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 18 2023

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	5.195	49	1130245	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2891155	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2334767	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.786	95	1792745	9.938	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.726	85	111337	0.447	ppbv	88
3) Chlorodifluoromethane	2.671	51	66778m	0.363	ppbv	
4) Chloromethane	2.806	50	41329	0.586	ppbv	95
9) Propene	2.700	41	46106	0.869	ppbv #	81
10) Heptane	7.594	43	28250m	0.236	ppbv	
11) Trichlorofluoromethane	3.558	101	44901	0.205	ppbv	98
13) Ethanol	3.240	45	838151	53.384	ppbv	98
15) Acetone	3.465	43	1825969m	12.248	ppbv	
17) tert-Butyl alcohol	3.886	59	30002m	0.196	ppbv	
19) Isopropyl Alcohol	3.578	45	316627m	3.525	ppbv	
20) Methylene Chloride	3.931	84	3813812	47.529	ppbv	98
26) Hexane	5.218	57	2815991	24.768	ppbv #	37
27) Carbon Disulfide	4.131	76	18449m	0.116	ppbv	
29) Chloroform	5.279	83	21139	0.108	ppbv	90
30) Cyclohexane	6.610	84	17699m	0.207	ppbv	
34) 2-Butanone	4.793	43	141667	0.974	ppbv	95
35) Carbon Tetrachloride	6.497	117	13148m	0.066	ppbv	
36) Benzene	6.378	78	119807	0.560	ppbv	96
44) 2,2,4-Trimethylpentane	7.336	57	234242m	0.687	ppbv	
50) 4-Methyl-2-Pentanone	8.205	43	150064	0.764	ppbv	100
52) Tetrachloroethene	10.629	164	4615m	0.066	ppbv	
53) Toluene	9.230	91	675317	2.988	ppbv	99
58) Ethyl Benzene	12.105	91	29735m	0.112	ppbv	
59) m/p-Xylene	12.362	91	99426m	0.398	ppbv	
60) o-Xylene	13.069	91	29687	0.125	ppbv	97
74) 1,2,4-Trimethylbenzene	16.124	105	60429m	0.206	ppbv	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091823\
Data File : VL040703.D
Acq On : 18 Sep 2023 17:44
Operator : SY/MD
Sample : 04402-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ST-4

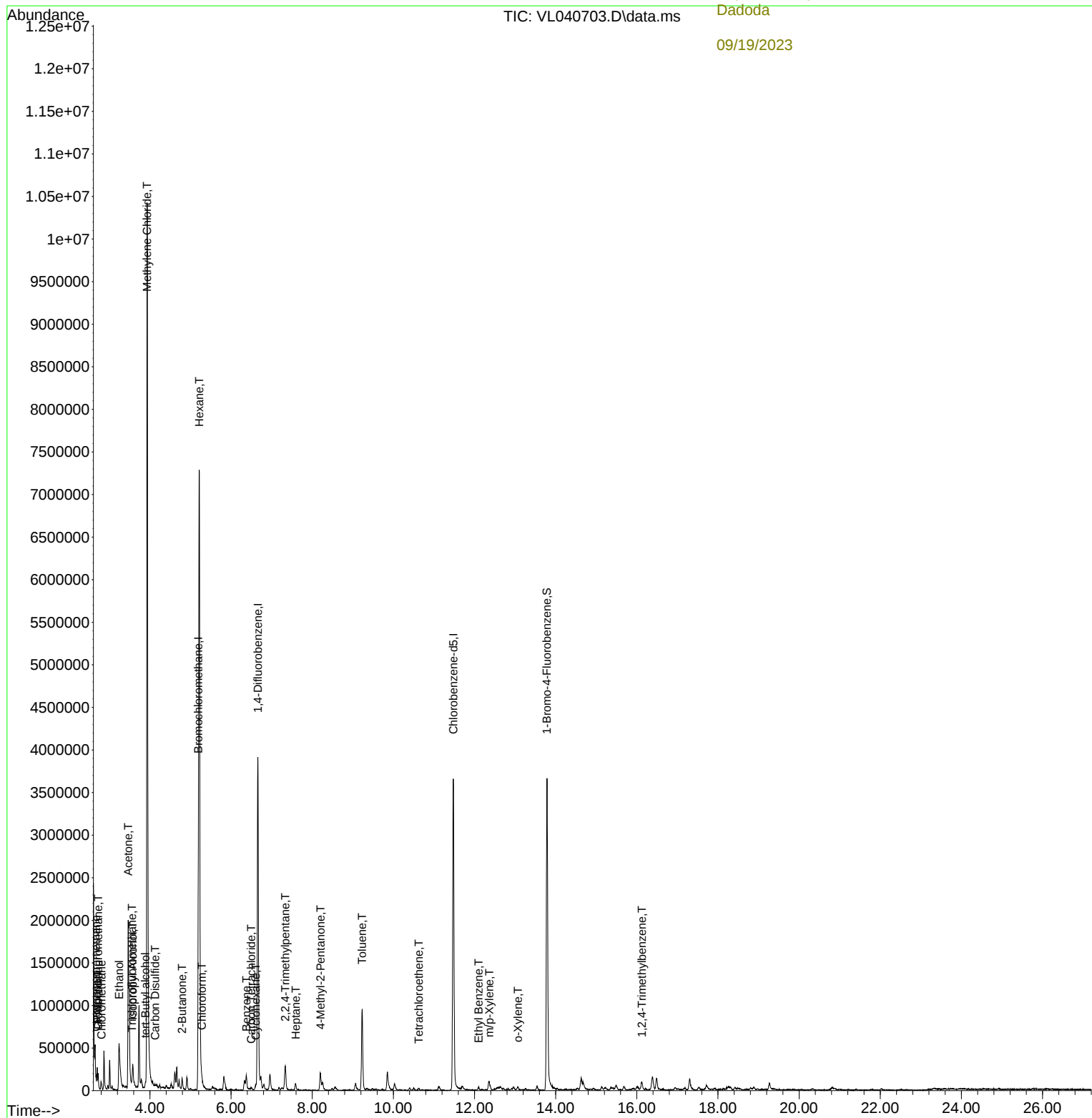
Quant Time: Sep 19 05:20:11 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 19 05:12:43 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

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

09/19/2023
Supervised By : Mahesh
Dadoda

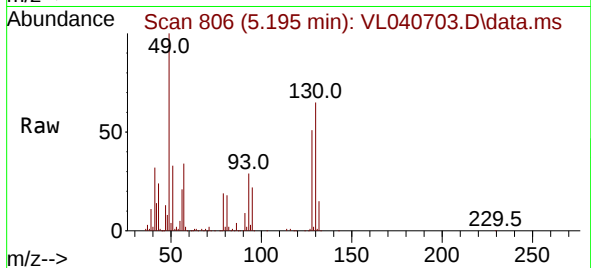
09/19/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Instrument :
MSVOA_L
ClientSampleId :
ST-4



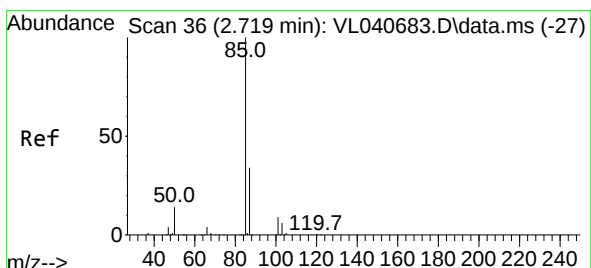
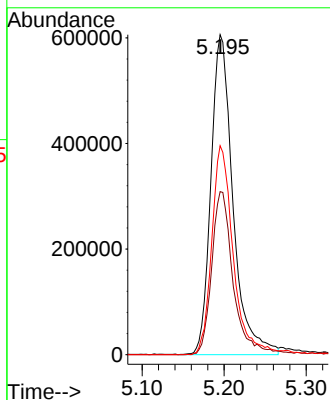
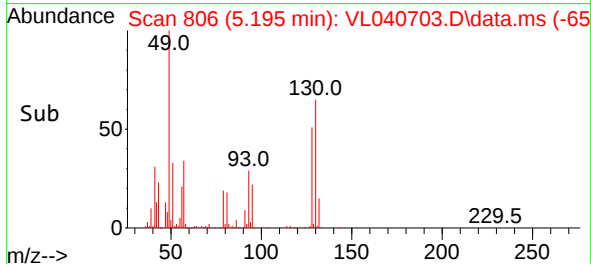
Tgt Ion: 49 Resp: 113024
Ion Ratio Lower Upper
49 100
128 50.8 25.4 76.0
130 65.2 32.3 96.8

Manual Integrations
APPROVED

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

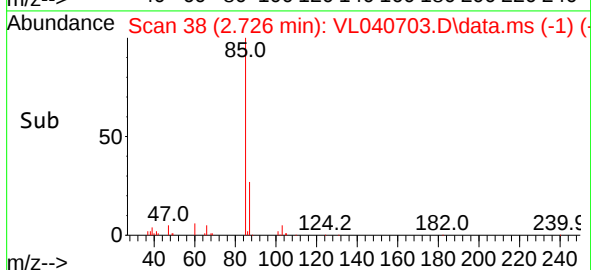
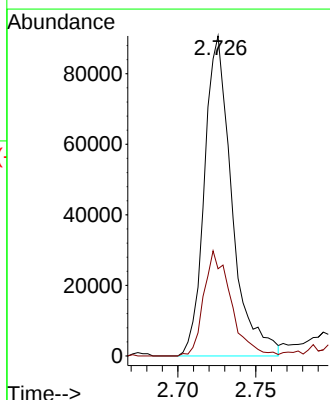
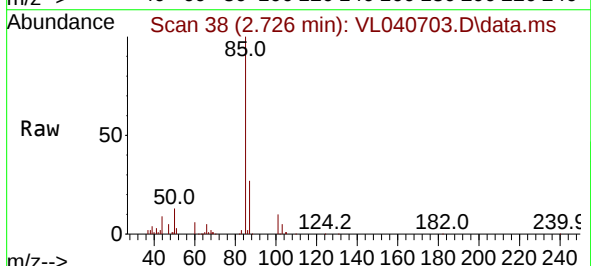
09/19/2023
Supervised By :Mahesh
Dadoda

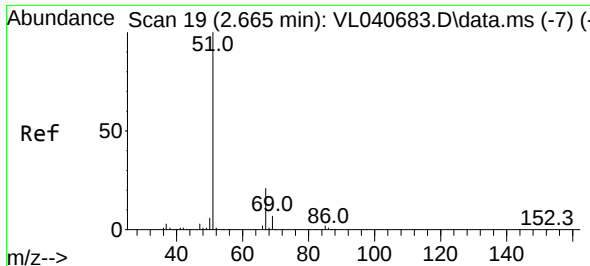
09/19/2023



#2
Dichlorodifluoromethane
Concen: 0.447 ppbv
RT: 2.726 min Scan# 38
Delta R.T. -0.006 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

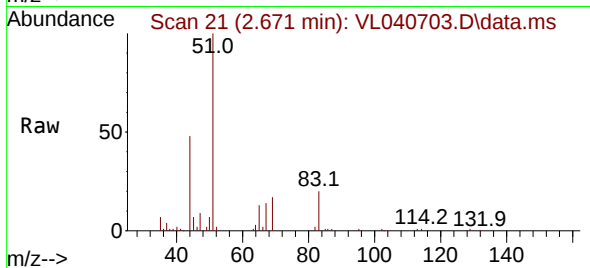
Tgt Ion: 85 Resp: 111337
Ion Ratio Lower Upper
85 100
87 27.2 27.2 40.8





#3
Chlorodifluoromethane
Concen: 0.363 ppbv m
RT: 2.671 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

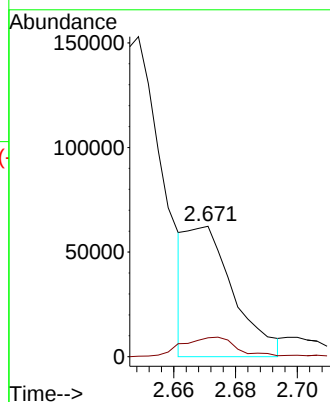
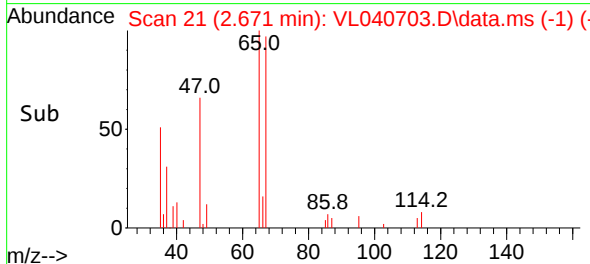
Instrument :
MSVOA_L
ClientSampleId :
ST-4



Tgt Ion: 51 Resp: 66778
Ion Ratio Lower Upper
51 100
67 17.5 16.7 25.1

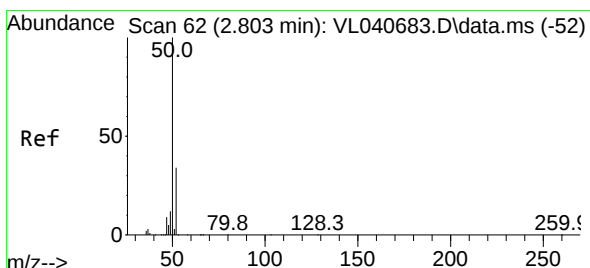
Manual Integrations
APPROVED

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

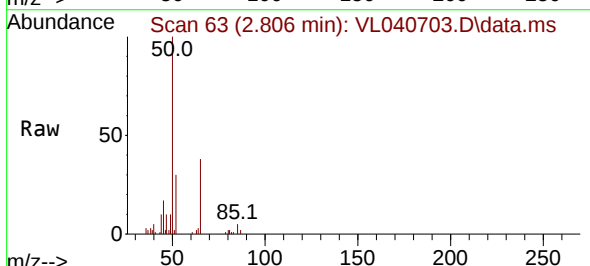


09/19/2023
Supervised By :Mahesh
Dadoda

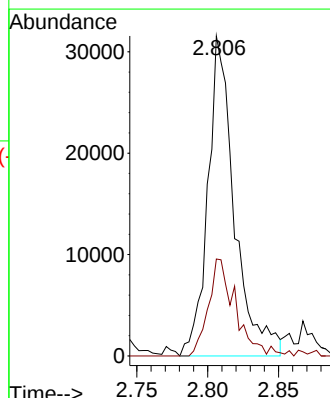
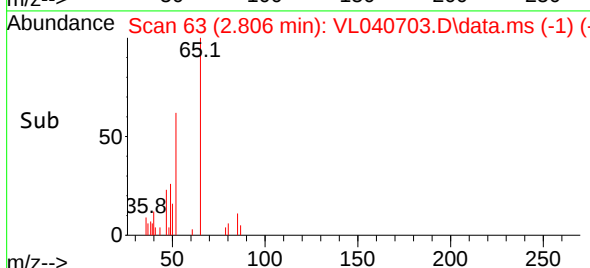
09/19/2023

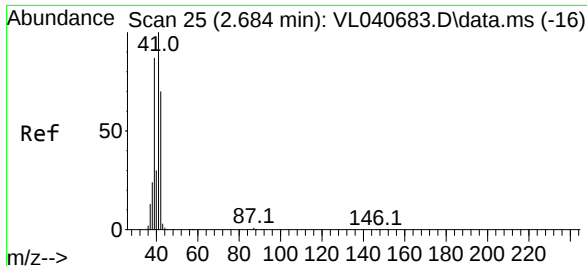


#4
Chloromethane
Concen: 0.586 ppbv
RT: 2.806 min Scan# 63
Delta R.T. -0.010 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44



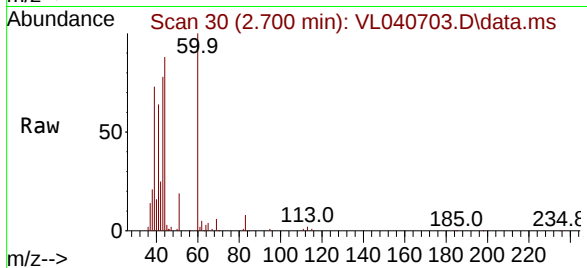
Tgt Ion: 50 Resp: 41329
Ion Ratio Lower Upper
50 100
52 30.9 27.1 40.7





#9
 Propene
 Concen: 0.869 ppbv
 RT: 2.700 min Scan# 30
 Delta R.T. 0.003 min
 Lab File: VL040703.D
 Acq: 18 Sep 2023 17:44

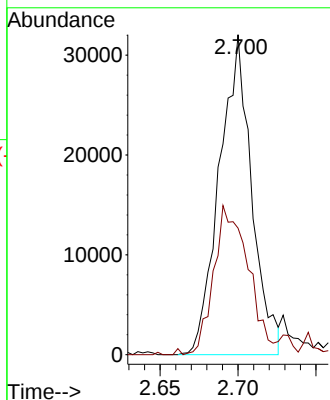
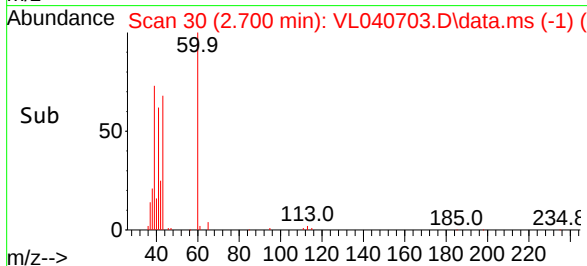
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-4



Tgt Ion: 41 Resp: 46100
 Ion Ratio Lower Upper
 41 100
 42 54.9 56.7 85.1

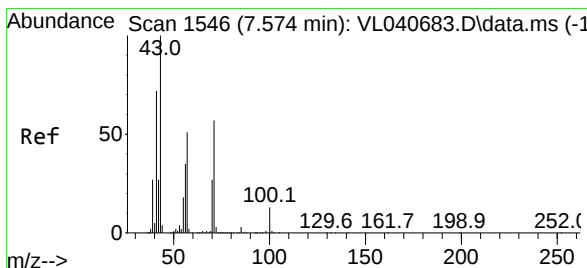
Manual Integrations
 APPROVED

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

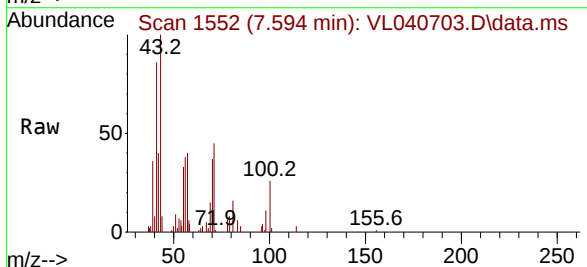


09/19/2023
 Supervised By :Mahesh
 Dadoda

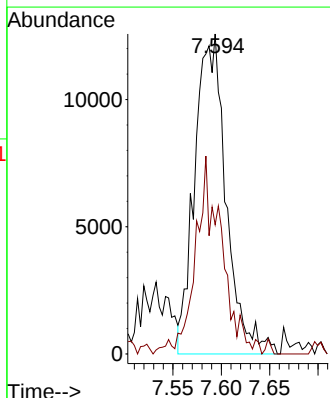
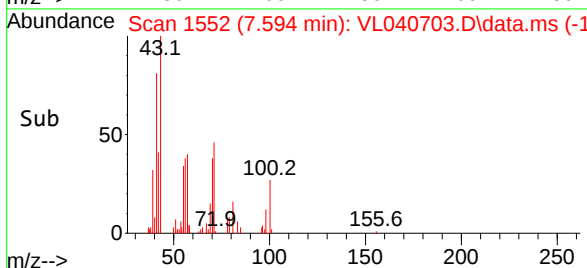
09/19/2023

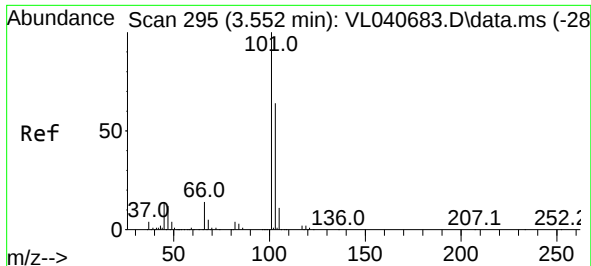


#10
 Heptane
 Concen: 0.236 ppbv m
 RT: 7.594 min Scan# 1552
 Delta R.T. 0.007 min
 Lab File: VL040703.D
 Acq: 18 Sep 2023 17:44



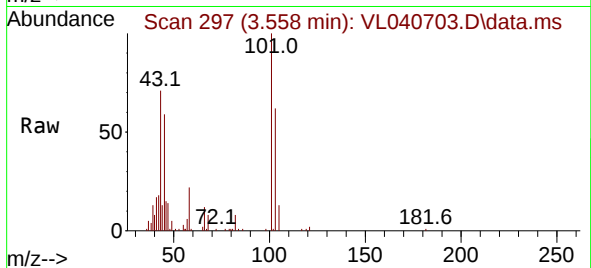
Tgt Ion: 43 Resp: 28250
 Ion Ratio Lower Upper
 43 100
 57 51.8 41.8 62.6





#11
 Trichlorofluoromethane
 Concen: 0.205 ppbv
 RT: 3.558 min Scan# 295
 Delta R.T. -0.010 min
 Lab File: VL040703.D
 Acq: 18 Sep 2023 17:44

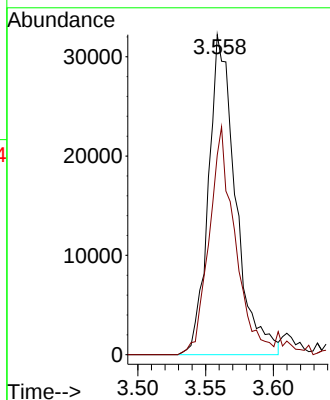
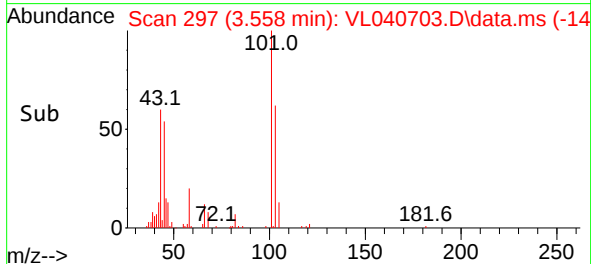
Instrument :
 MSVOA_L
 ClientSampleId :
 ST-4



Tgt Ion:101 Resp: 4490
 Ion Ratio Lower Upper
 101 100
 103 62.4 51.3 76.9

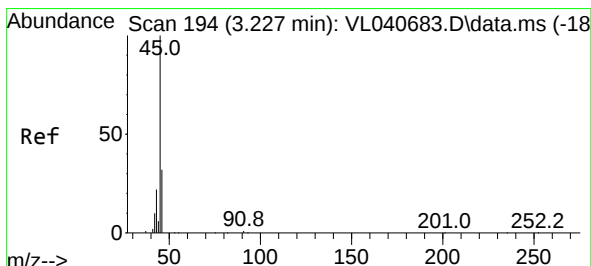
Manual Integrations
 APPROVED

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

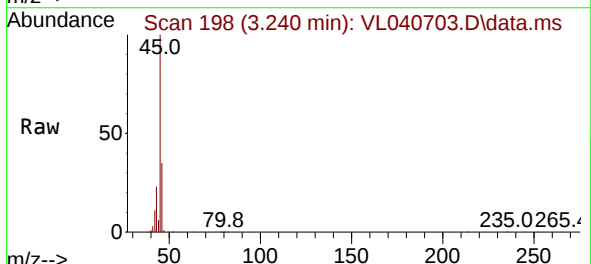


09/19/2023
 Supervised By :Mahesh
 Dadoda

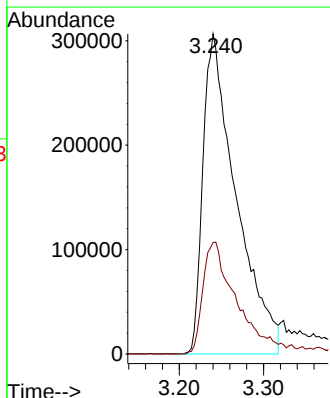
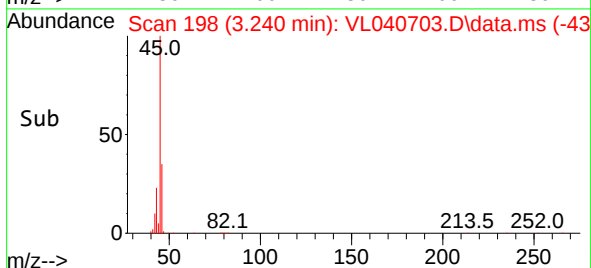
09/19/2023

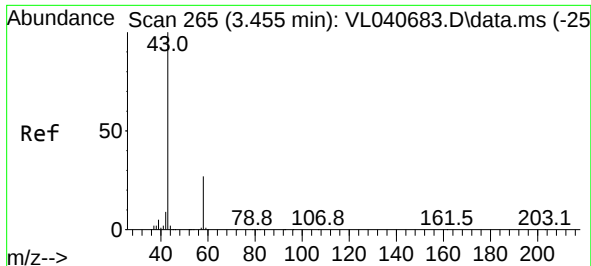


#13
 Ethanol
 Concen: 53.384 ppbv
 RT: 3.240 min Scan# 198
 Delta R.T. -0.003 min
 Lab File: VL040703.D
 Acq: 18 Sep 2023 17:44



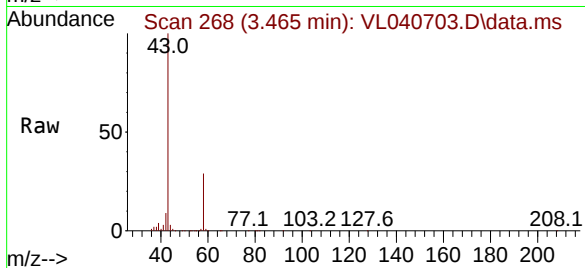
Tgt Ion: 45 Resp: 838151
 Ion Ratio Lower Upper
 45 100
 46 36.9 15.2 61.0





#15
Acetone
Concen: 12.248 ppbv m
RT: 3.465 min Scan# 265
Delta R.T. -0.006 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

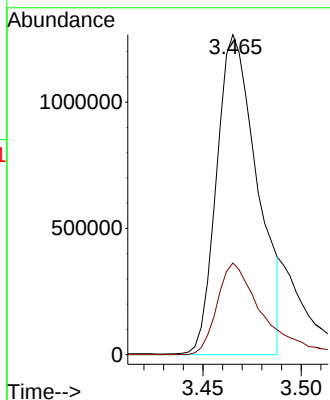
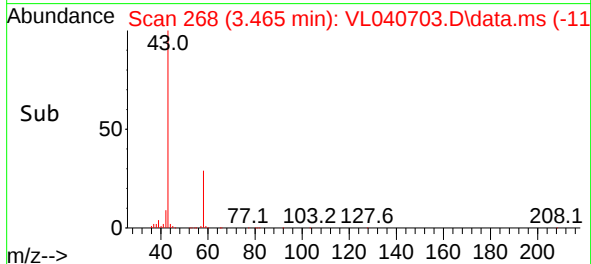
Instrument :
MSVOA_L
ClientSampleId :
ST-4



Tgt Ion: 43 Resp: 182596
Ion Ratio Lower Upper
43 100
58 33.3 22.6 34.0

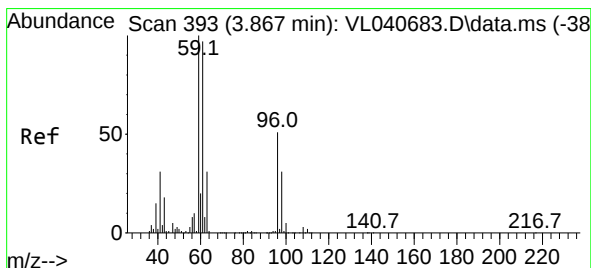
Manual Integrations
APPROVED

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



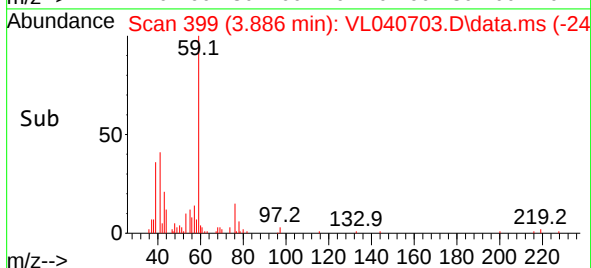
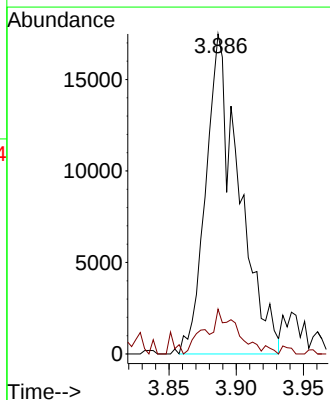
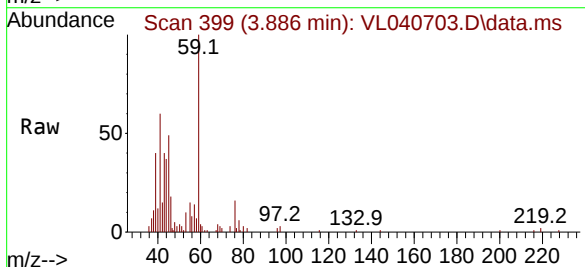
09/19/2023
Supervised By :Mahesh
Dadoda

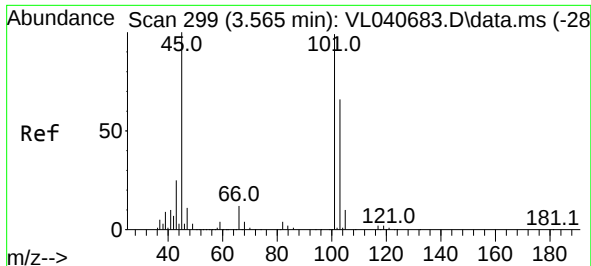
09/19/2023



#17
tert-Butyl alcohol
Concen: 0.196 ppbv m
RT: 3.886 min Scan# 399
Delta R.T. 0.003 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 59 Resp: 30002
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 3.525 ppbv m

RT: 3.578 min Scan# 303

Delta R.T. 0.000 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

ST-4

Tgt Ion: 45 Resp: 31662

Ion Ratio Lower Upper

45 100

58 192.2 1.9 2.9

Manual Integrations

APPROVED

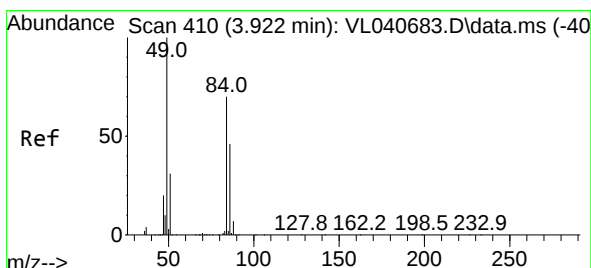
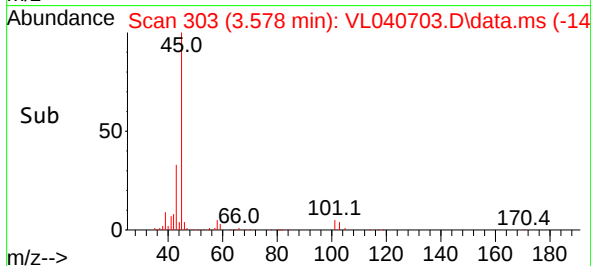
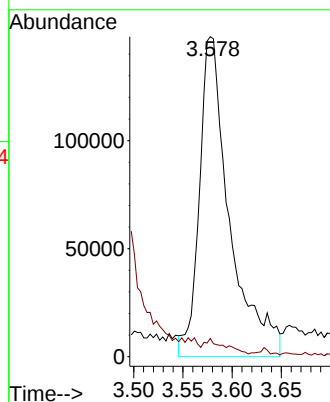
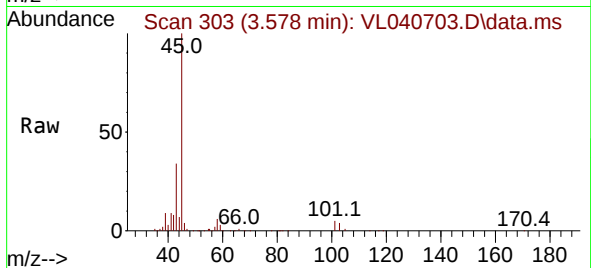
Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023

09/19/2023

Supervised By :Mahesh
Dadoda

09/19/2023



#20

Methylene Chloride

Concen: 47.529 ppbv

RT: 3.931 min Scan# 413

Delta R.T. -0.006 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Tgt Ion: 84 Resp: 3813812

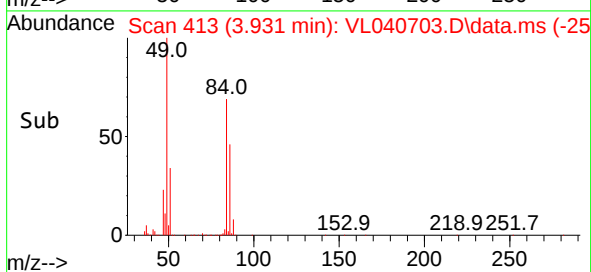
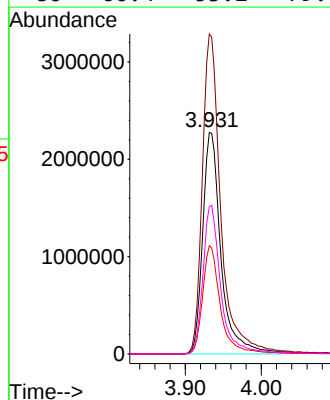
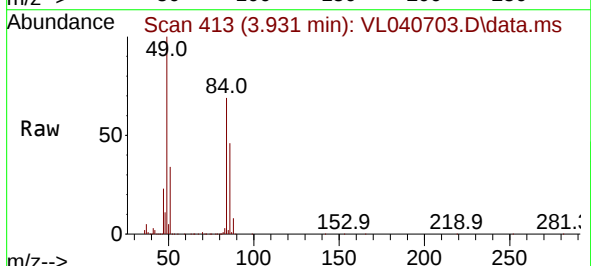
Ion Ratio Lower Upper

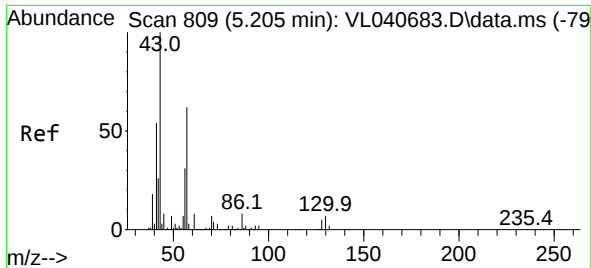
84 100

49 144.4 114.4 171.6

51 48.8 35.5 53.3

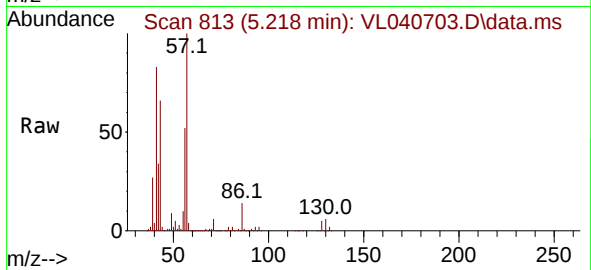
86 66.4 53.2 79.8





#26
Hexane
Concen: 24.768 ppbv
RT: 5.218 min Scan# 813
Delta R.T. -0.003 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Instrument :
MSVOA_L
ClientSampleId :
ST-4



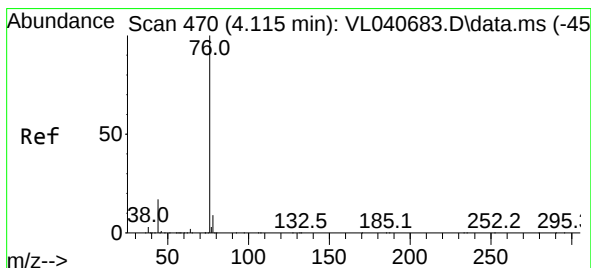
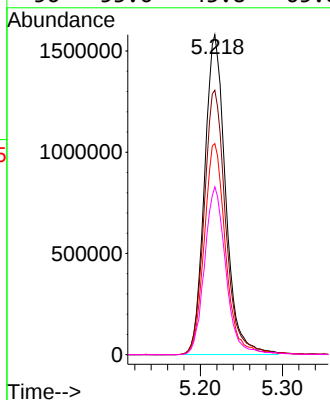
Tgt Ion: 57 Resp: 281599
Ion Ratio Lower Upper
57 100
41 85.3 75.2 112.8
43 67.1 185.6 278.4
56 53.6 43.8 65.8

Manual Integrations
APPROVED

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

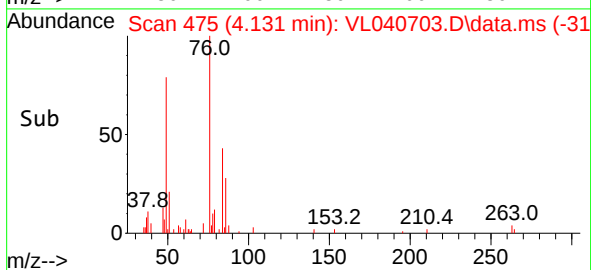
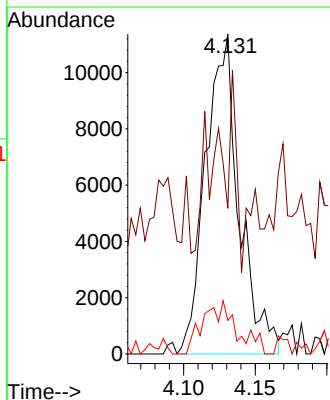
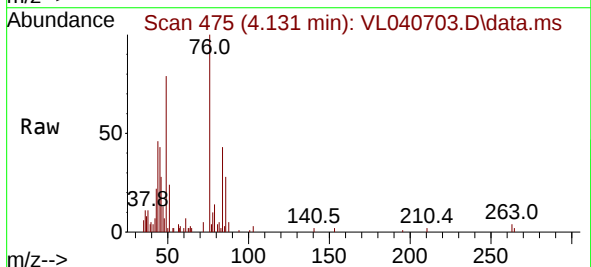
09/19/2023
Supervised By :Mahesh
Dadoda

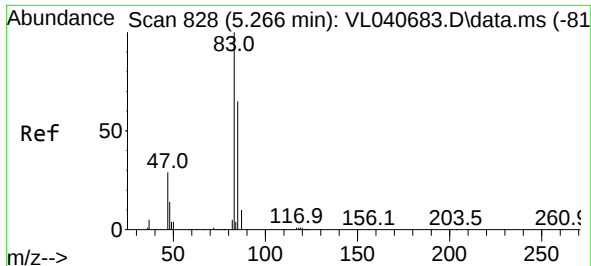
09/19/2023



#27
Carbon Disulfide
Concen: 0.116 ppbv m
RT: 4.131 min Scan# 475
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 76 Resp: 18449
Ion Ratio Lower Upper
76 100
44 62.9 14.5 21.7#
78 16.7 7.7 11.5#





#29

Chloroform

Concen: 0.108 ppbv

RT: 5.279 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Instrument :

MSVOA_L

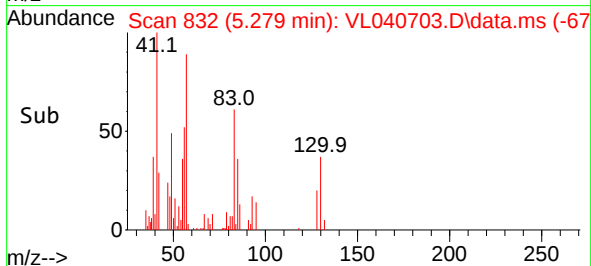
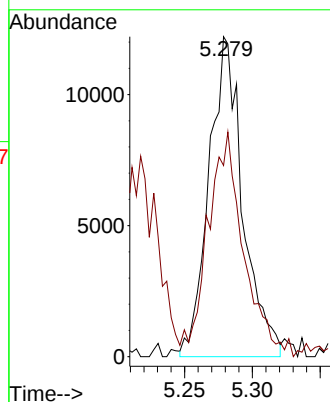
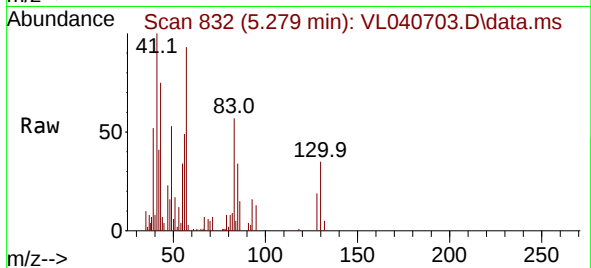
ClientSampleId :

ST-4

Tgt Ion: 83 Resp: 21139
 Ion Ratio Lower Upper
 83 100
 85 57.2 51.8 77.8

Manual Integrations
 APPROVED

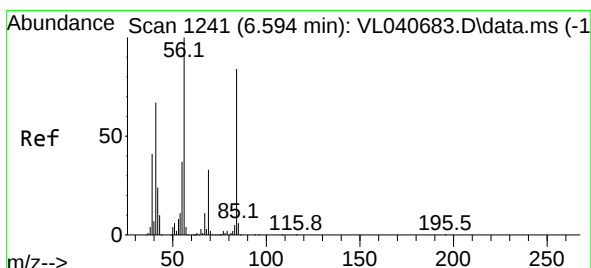
Reviewed By :Semsettin Yesilyurt 09/19/2023
 Supervised By :Mahesh Dadoda 09/19/2023



09/19/2023

Supervised By :Mahesh
 Dadoda

09/19/2023



#30

Cyclohexane

Concen: 0.207 ppbv m

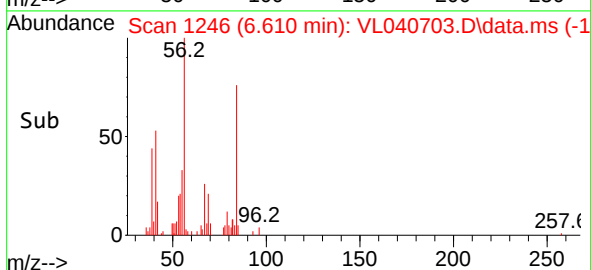
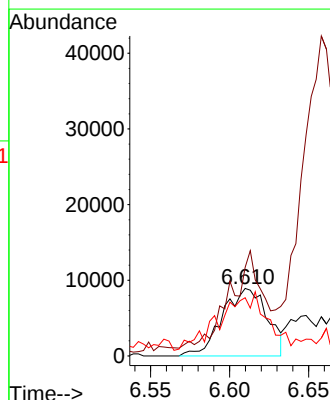
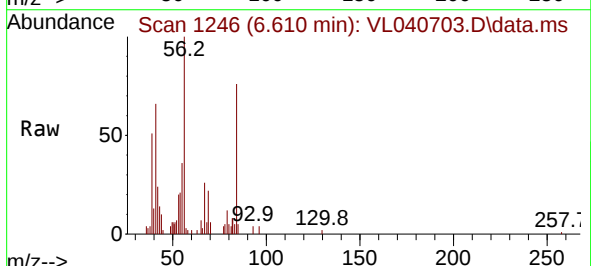
RT: 6.610 min Scan# 1246

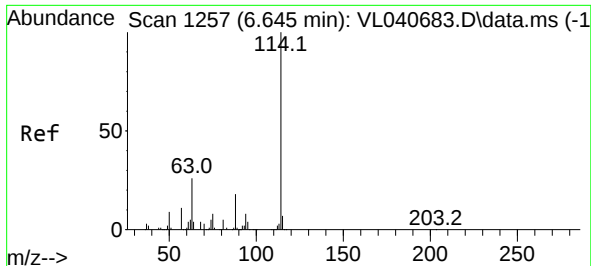
Delta R.T. 0.000 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Tgt Ion: 84 Resp: 17699
 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: 6.658 min Scan# 114

Delta R.T. -0.003 min

Lab File: VL040703.D

Acq: 18 Sep 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

ST-4

Tgt Ion:114 Resp: 289115

Ion Ratio Lower Upper

114 100

63 25.5 21.1 31.7

88 17.9 14.5 21.7

Manual Integrations

APPROVED

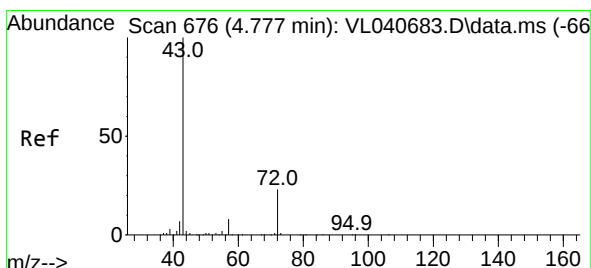
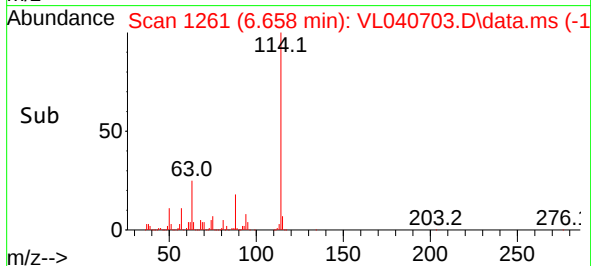
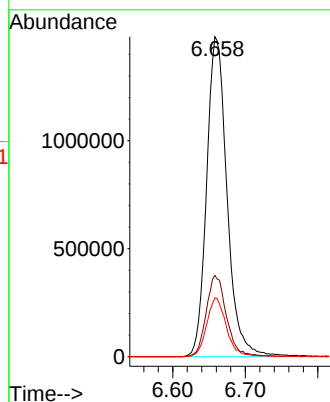
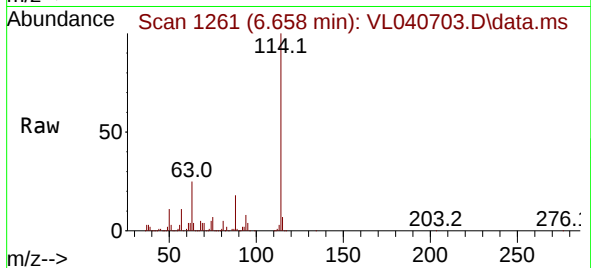
Reviewed By :Semsettin Yesilyurt 09/19/2023

Supervised By :Mahesh Dadoda 09/19/2023

09/19/2023

Supervised By :Mahesh
Dadoda

09/19/2023



#34

2-Butanone

Concen: 0.974 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.003 min

Lab File: VL040703.D

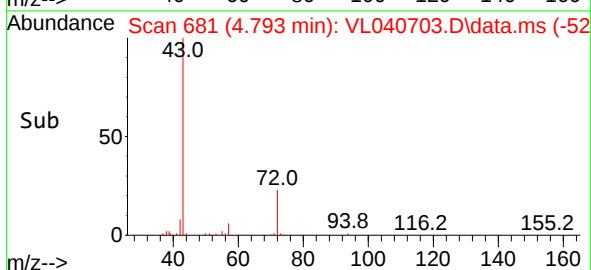
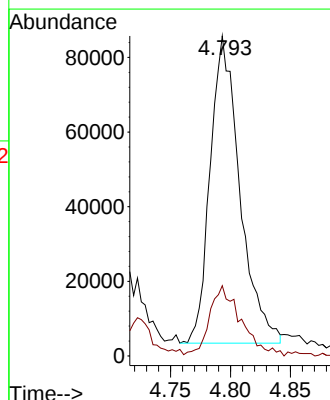
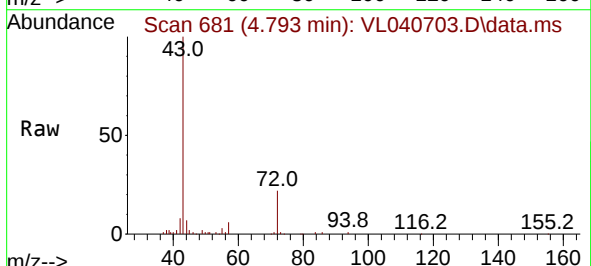
Acq: 18 Sep 2023 17:44

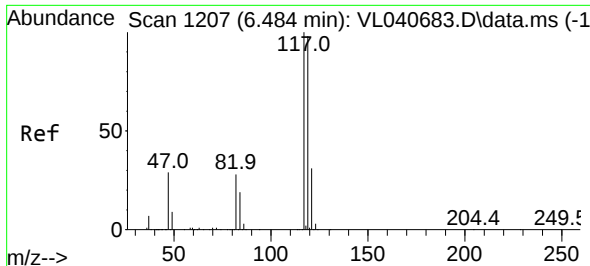
Tgt Ion: 43 Resp: 141667

Ion Ratio Lower Upper

43 100

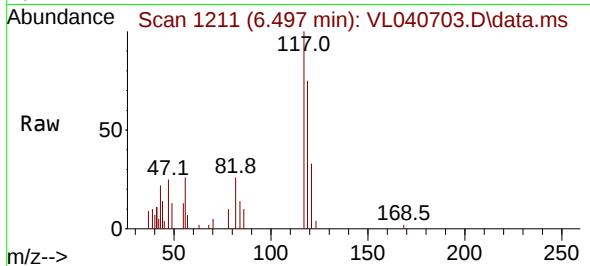
72 25.8 18.6 27.8





#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 6.497 min Scan# 1174
Delta R.T. -0.006 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

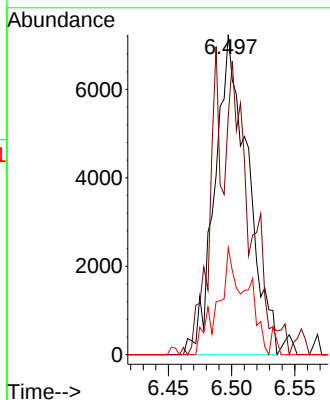
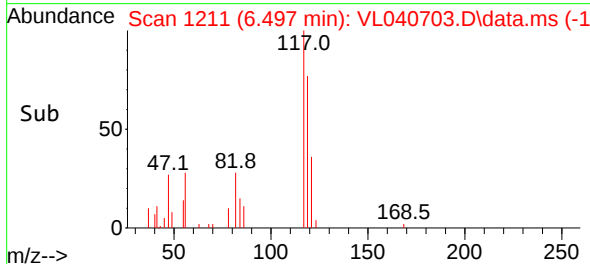
Instrument :
MSVOA_L
ClientSampleId :
ST-4



Tgt Ion: 117 Resp: 1314
Ion Ratio Lower Upper
117 100
119 74.6 78.6 117.8
121 33.4 24.7 37.1

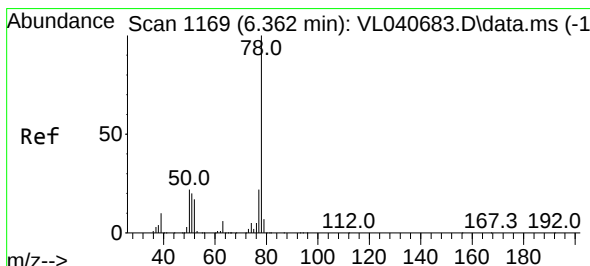
Manual Integrations
APPROVED

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



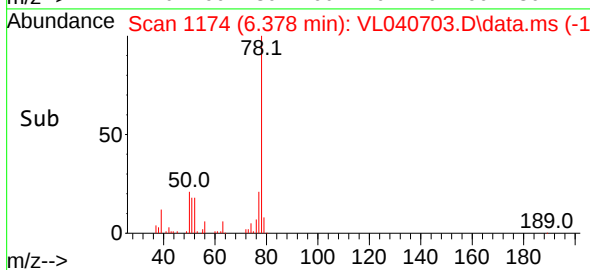
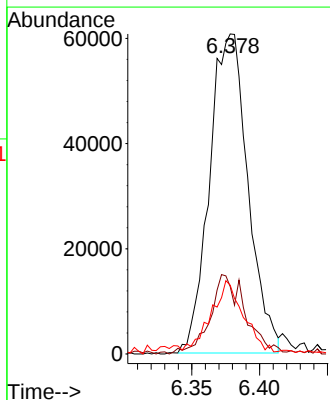
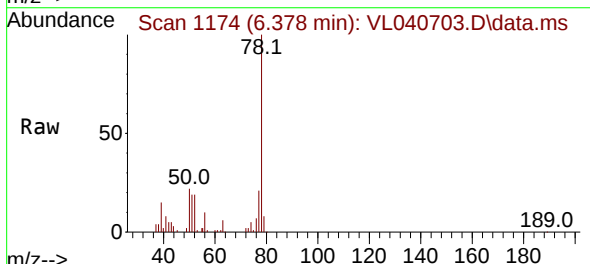
09/19/2023
Supervised By :Mahesh
Dadoda

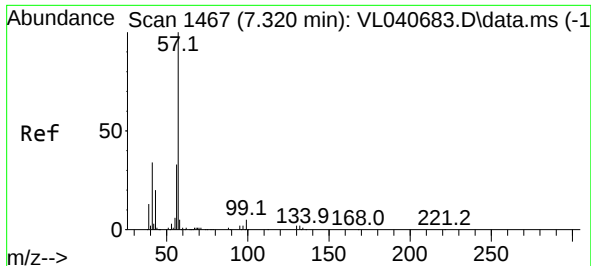
09/19/2023



#36
Benzene
Concen: 0.560 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. -0.003 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

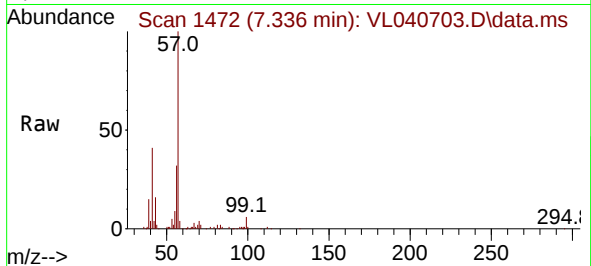
Tgt Ion: 78 Resp: 119807
Ion Ratio Lower Upper
78 100
77 19.4 17.9 26.9
50 20.8 17.3 25.9





#44
2,2,4-Trimethylpentane
Concen: 0.687 ppbv m
RT: 7.336 min Scan# 1467
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

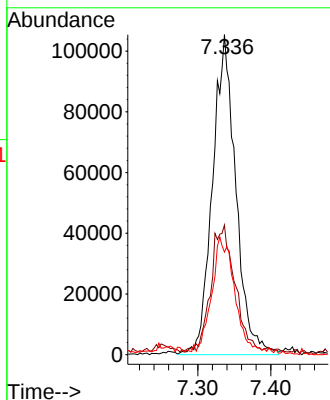
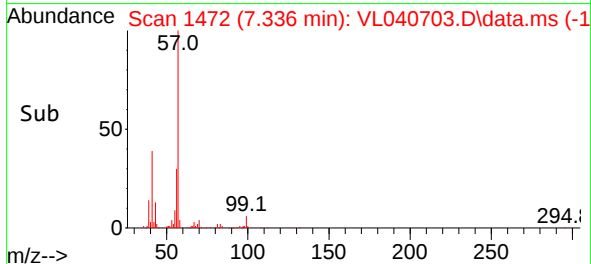
Instrument :
MSVOA_L
ClientSampleId :
ST-4



Tgt Ion: 57 Resp: 23424
Ion Ratio Lower Upper
57 100
41 45.7 28.5 42.7
56 0.0 25.4 38.2

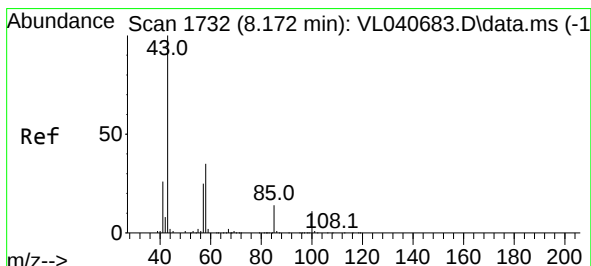
Manual Integrations
APPROVED

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



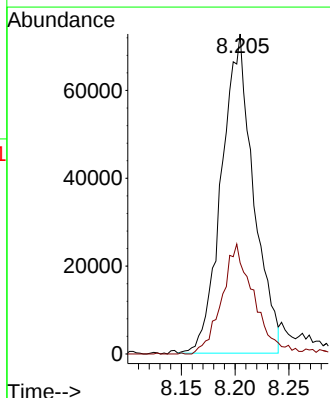
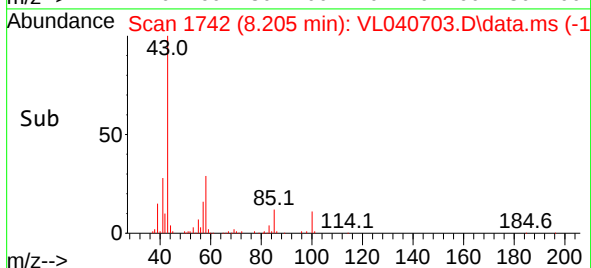
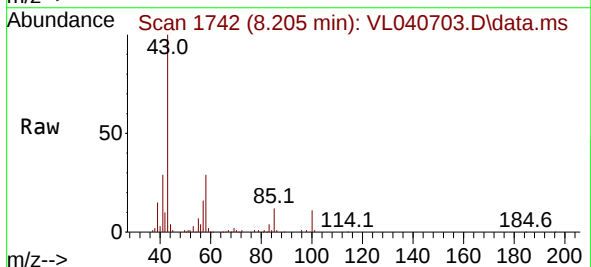
09/19/2023
Supervised By :Mahesh
Dadoda

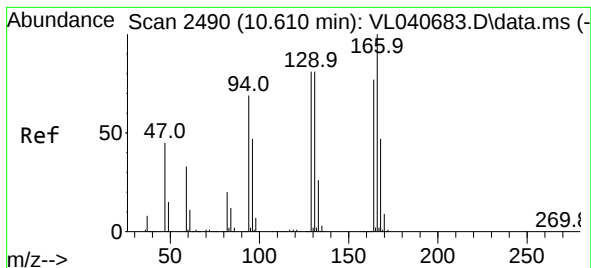
09/19/2023



#50
4-Methyl-2-Pentanone
Concen: 0.764 ppbv
RT: 8.205 min Scan# 1742
Delta R.T. 0.013 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

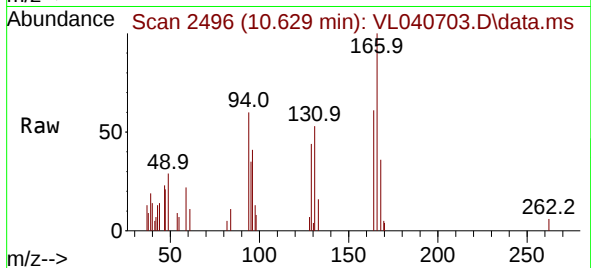
Tgt Ion: 43 Resp: 150064
Ion Ratio Lower Upper
43 100
58 35.5 28.2 42.4





#52
Tetrachloroethene
Concen: 0.066 ppbv m
RT: 10.629 min Scan# 2490
Delta R.T. 0.003 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Instrument :
MSVOA_L
ClientSampleId :
ST-4



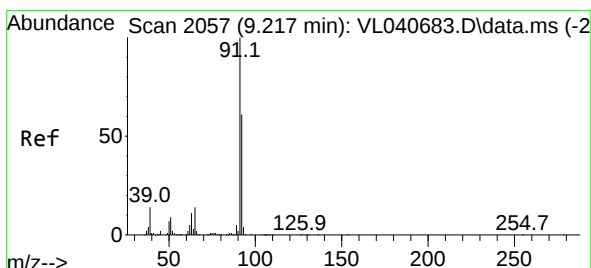
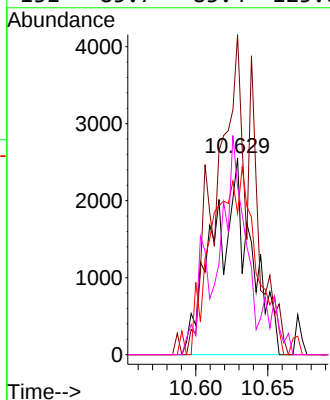
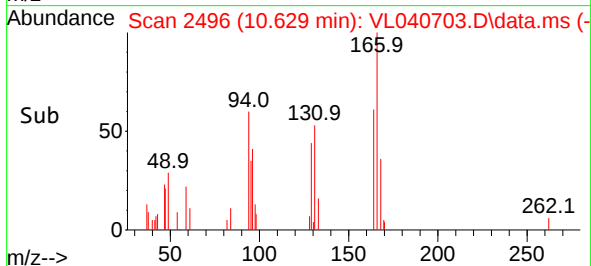
Tgt Ion:164 Resp: 461
Ion Ratio Lower Upper
164 100
166 162.7 103.4 155.2
129 71.8 83.5 125.3
131 85.7 83.4 125.0

Manual Integrations
APPROVED

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

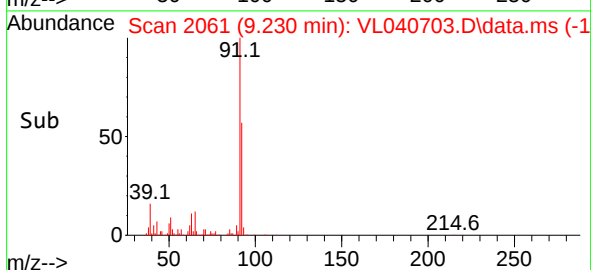
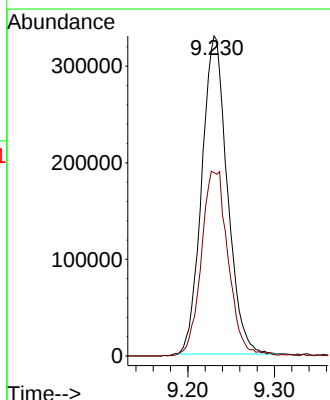
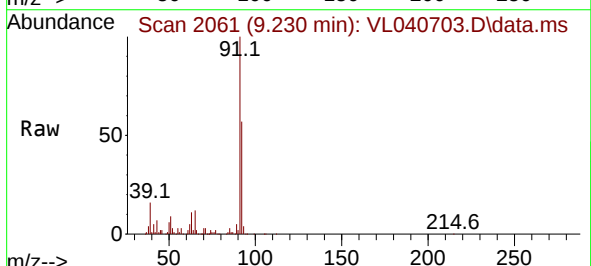
09/19/2023
Supervised By :Mahesh
Dadoda

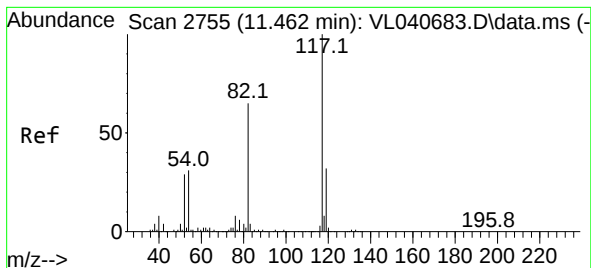
09/19/2023



#53
Toluene
Concen: 2.988 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

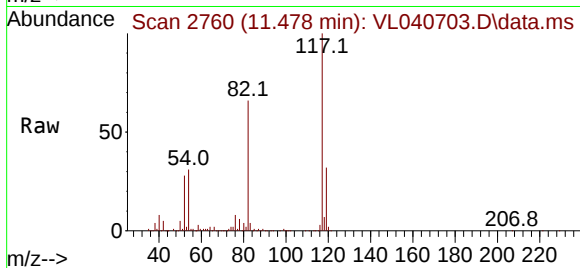
Tgt Ion: 91 Resp: 675317
Ion Ratio Lower Upper
91 100
92 61.4 48.5 72.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

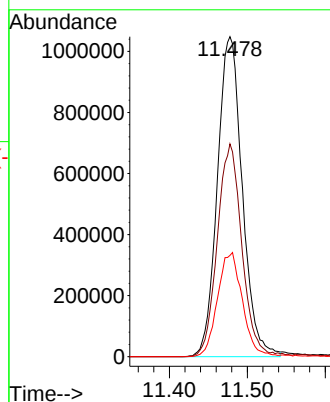
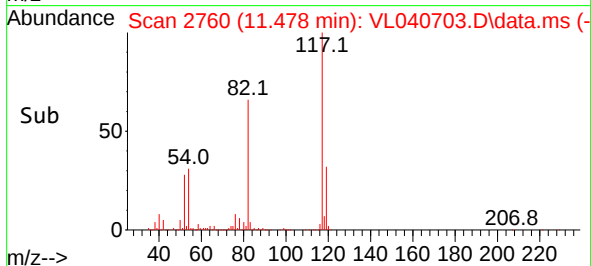
Instrument :
MSVOA_L
ClientSampleId :
ST-4



Tgt Ion: 117 Resp: 233476
Ion Ratio Lower Upper
117 100
82 66.5 51.4 77.0
119 32.8 24.7 37.1

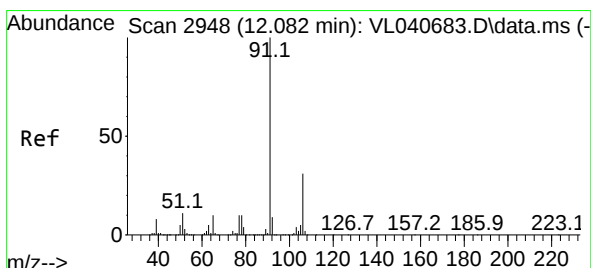
Manual Integrations
APPROVED

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



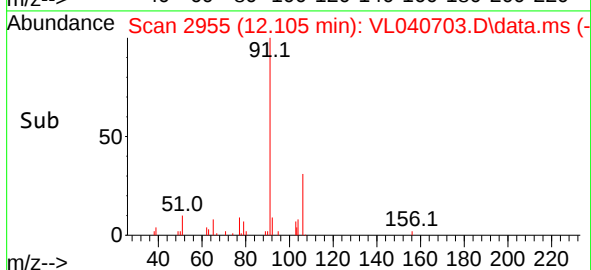
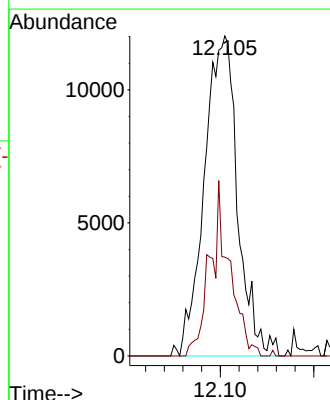
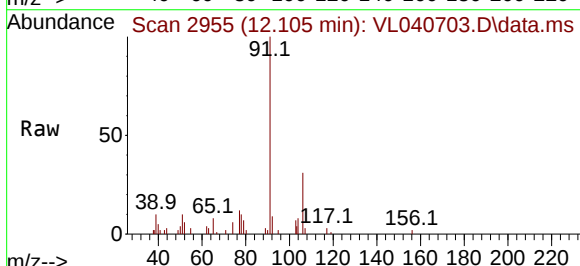
09/19/2023
Supervised By :Mahesh
Dadoda

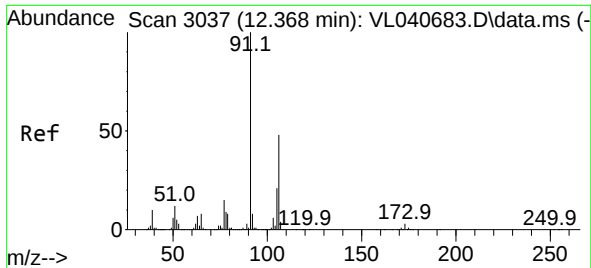
09/19/2023



#58
Ethyl Benzene
Concen: 0.112 ppbv m
RT: 12.105 min Scan# 2955
Delta R.T. 0.003 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion: 91 Resp: 29735
Ion Ratio Lower Upper
91 100
106 30.8 24.7 37.1





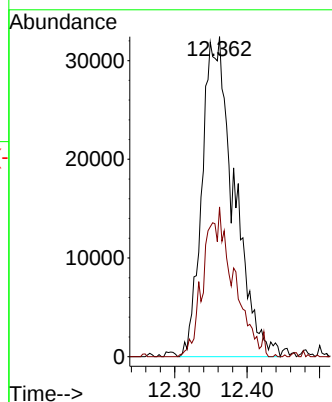
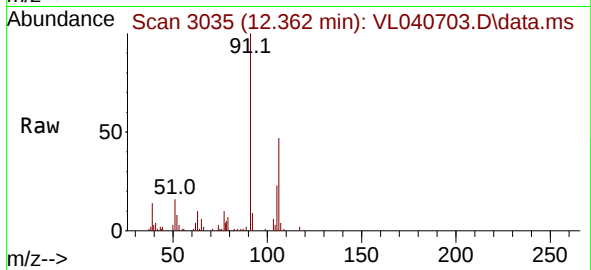
#59
m/p-Xylene
Concen: 0.398 ppbv m
RT: 12.362 min Scan# 3035
Delta R.T. -0.019 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Instrument :
MSVOA_L
ClientSampleId :
ST-4

Tgt Ion: 91 Resp: 99420
Ion Ratio Lower Upper
91 100
106 0.0 34.8 52.2

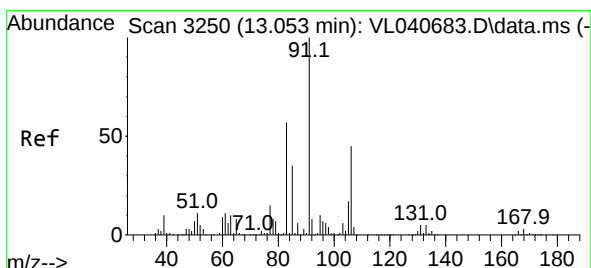
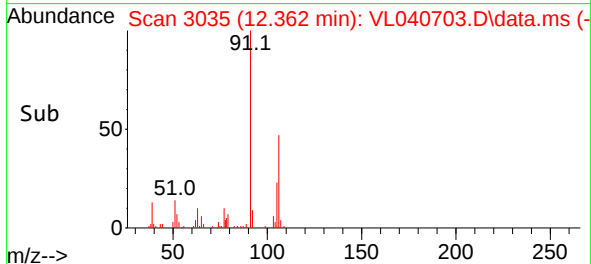
Manual Integrations
APPROVED

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



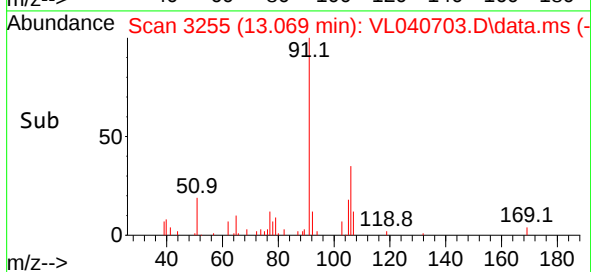
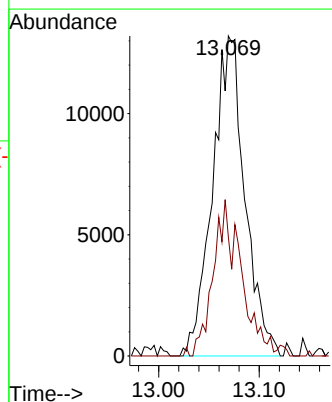
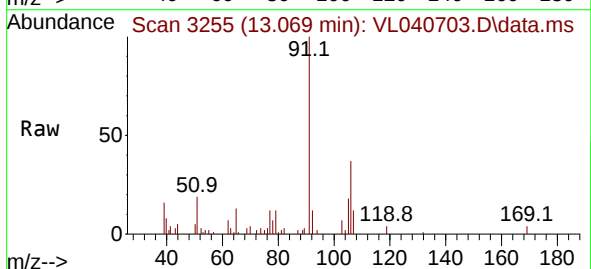
09/19/2023
Supervised By :Mahesh
Dadoda

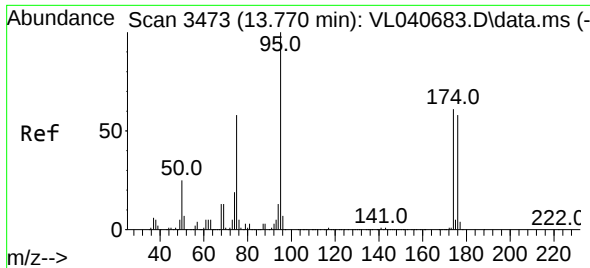
09/19/2023



#60
o-Xylene
Concen: 0.125 ppbv
RT: 13.069 min Scan# 3255
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

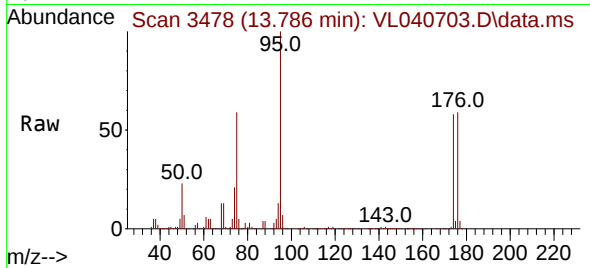
Tgt Ion: 91 Resp: 29687
Ion Ratio Lower Upper
91 100
106 42.8 22.3 66.9





#68
1-Bromo-4-Fluorobenzene
Concen: 9.938 ppbv
RT: 13.786 min Scan# 3473
Delta R.T. 0.000 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Instrument :
MSVOA_L
ClientSampleId :
ST-4



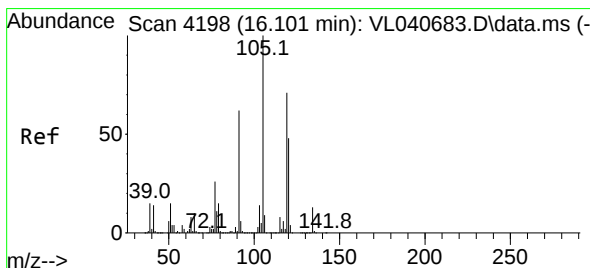
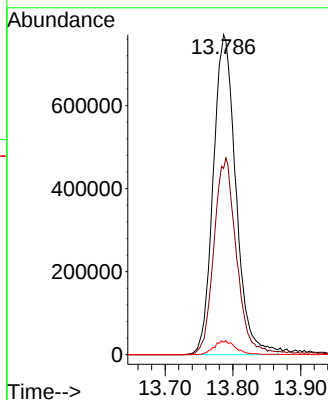
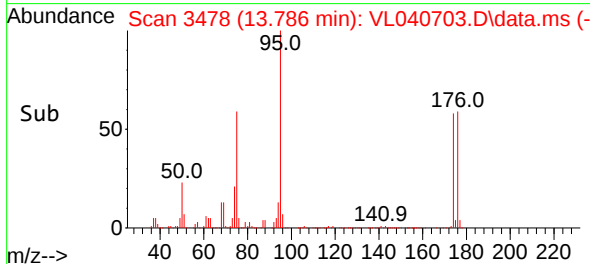
Tgt Ion: 95 Resp: 179274
Ion Ratio Lower Upper
95 100
174 61.7 48.9 73.3
175 4.2 3.5 5.3

Manual Integrations
APPROVED

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

09/19/2023
Supervised By :Mahesh
Dadoda

09/19/2023



#74
1,2,4-Trimethylbenzene
Concen: 0.206 ppbv m
RT: 16.124 min Scan# 4205
Delta R.T. 0.007 min
Lab File: VL040703.D
Acq: 18 Sep 2023 17:44

Tgt Ion:105 Resp: 60429
Ion Ratio Lower Upper
105 100
120 39.7 38.6 57.8
91 16.8 50.0 75.0#
77 16.1 20.6 31.0#

