

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092723\
 Data File : VL040727.D
 Acq On : 27 Sep 2023 14:49
 Operator : SY/MD
 Sample : 04616-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/28/2023
 Supervised By : Mahesh Dadoda 09/28/2023

Quant Time: Sep 28 01:44:30 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	5.182	49	1322505	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.639	114	3588270	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.446	117	3119920	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	2348453	9.743	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.735	85	57082	0.196	ppbv	94
3) Chlorodifluoromethane	2.684	51	39289m	0.182	ppbv	
4) Chloromethane	2.819	50	22097	0.268	ppbv	95
9) Propene	2.710	41	71237	1.148	ppbv #	78
10) Heptane	7.565	43	33370m	0.239	ppbv	
11) Trichlorofluoromethane	3.565	101	28043	0.109	ppbv	89
13) Ethanol	3.240	45	979804	53.333	ppbv	96
15) Acetone	3.465	43	7646927	43.836	ppbv	92
17) tert-Butyl alcohol	3.883	59	117393	0.657	ppbv	95
19) Isopropyl Alcohol	3.578	45	852978	8.115	ppbv #	93
20) Methylene Chloride	3.931	84	2510885	26.743	ppbv	99
26) Hexane	5.205	57	2199049	16.530	ppbv #	36
27) Carbon Disulfide	4.121	76	104649	0.564	ppbv #	92
29) Chloroform	5.266	83	11761	0.051	ppbv	98
30) Cyclohexane	6.590	84	12435m	0.124	ppbv	
34) 2-Butanone	4.777	43	469380	2.601	ppbv	97
36) Benzene	6.353	78	68815m	0.259	ppbv	
41) Tetrahydrofuran	5.552	42	93894m	1.015	ppbv	
44) 2,2,4-Trimethylpentane	7.308	57	49890m	0.118	ppbv	
50) 4-Methyl-2-Pentanone	8.176	43	66368m	0.272	ppbv	
52) Tetrachloroethene	10.590	164	9186m	0.106	ppbv	
53) Toluene	9.205	91	402385	1.434	ppbv	100
58) Ethyl Benzene	12.063	91	141295	0.397	ppbv	93
59) m/p-Xylene	12.320	91	411273m	1.231	ppbv	
60) o-Xylene	13.034	91	133432m	0.419	ppbv	
61) Styrene	12.876	104	540797	4.051	ppbv	96
62) Isopropylbenzene	14.005	105	1563679	3.251	ppbv	99
73) 1,3,5-Trimethylbenzene	15.326	105	38176m	0.119	ppbv	
74) 1,2,4-Trimethylbenzene	16.089	105	133844m	0.341	ppbv	

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

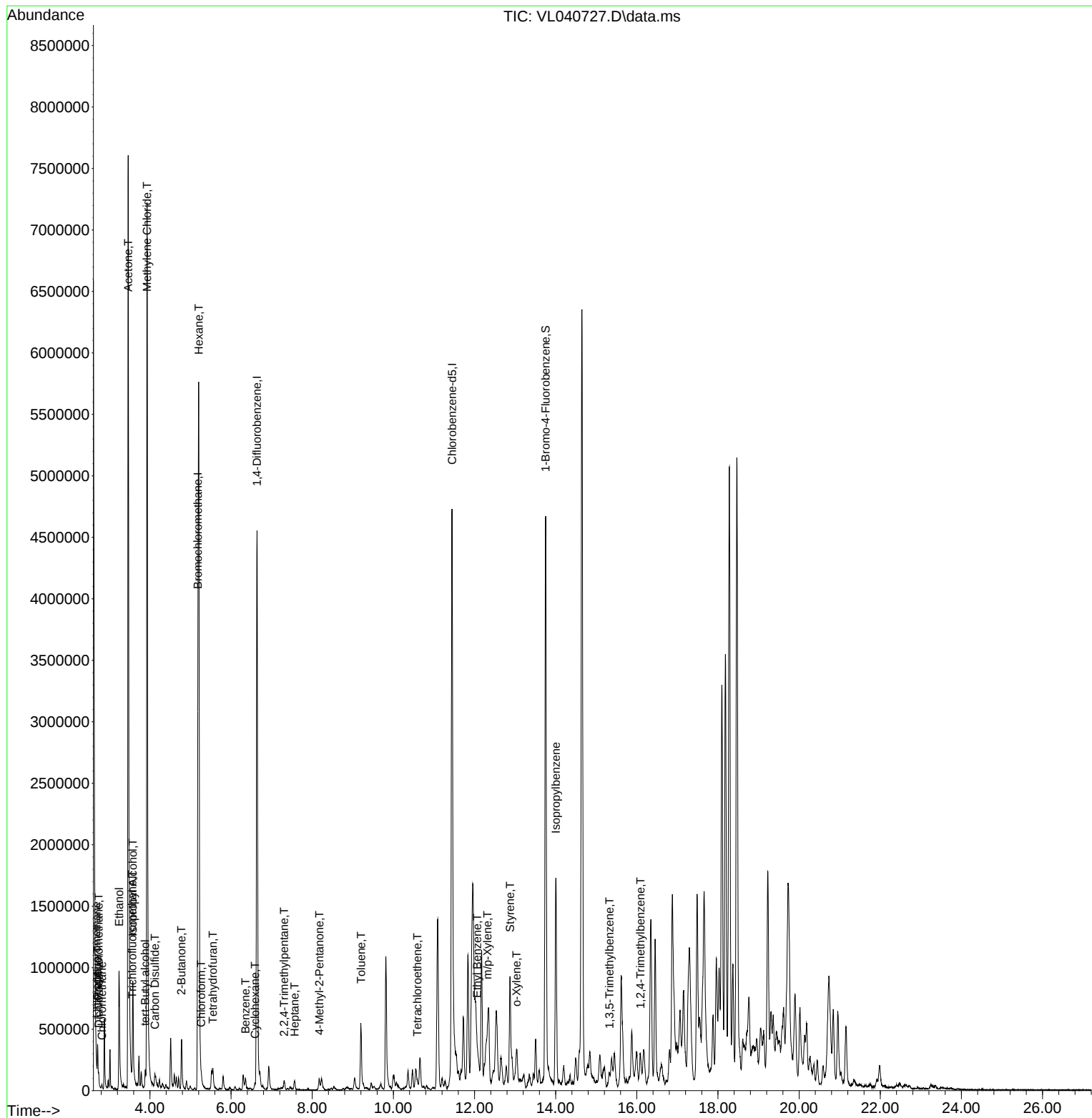
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092723\
Data File : VL040727.D
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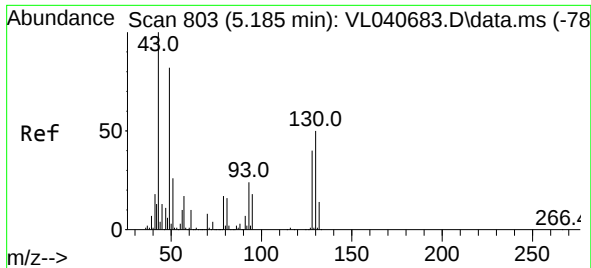
Instrument :
MSVOA_L
ClientSampleId :
SSG1

Quant Time: Sep 28 01:44:30 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

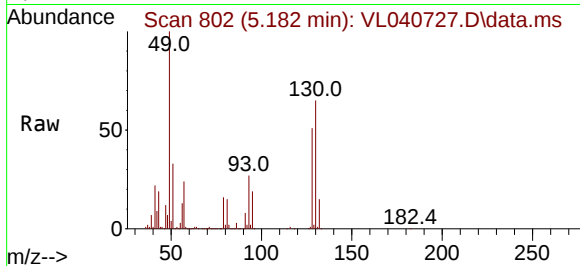
Reviewed By : Semsettin Yesilyurt 09/28/2023
Supervised By : Mahesh Dadoda 09/28/2023





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.016 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

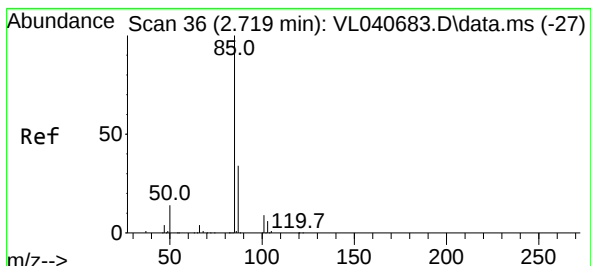
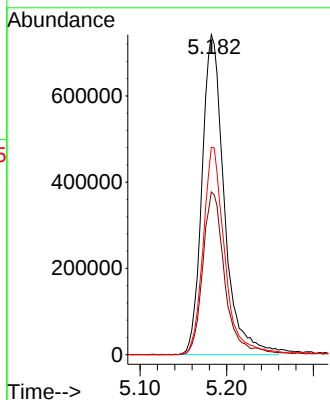
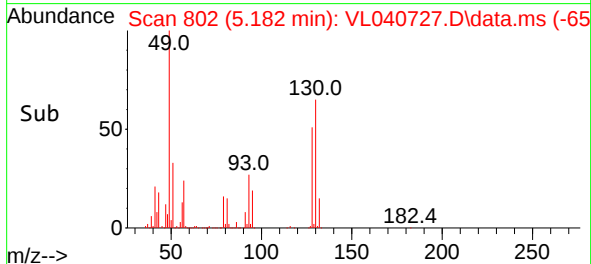
Instrument :
MSVOA_L
ClientSampleId :
SSG1



Tgt Ion: 49 Resp: 132250
Ion Ratio Lower Upper
49 100
128 51.2 25.4 76.0
130 64.5 32.3 96.8

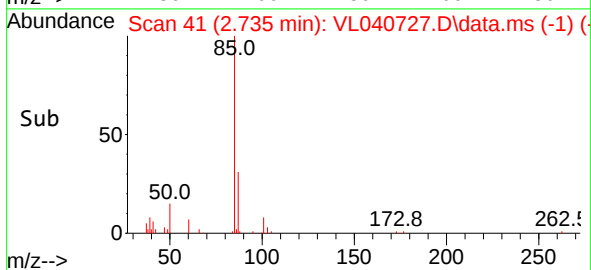
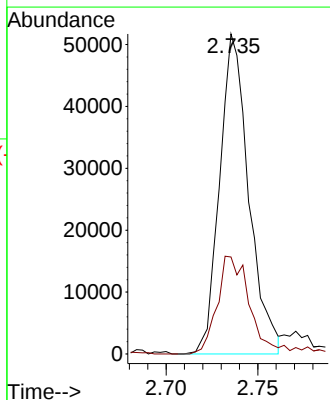
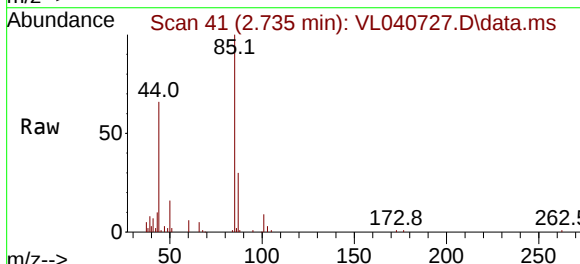
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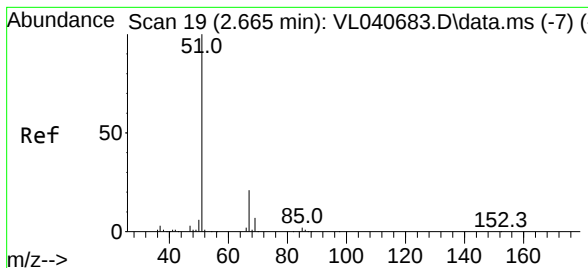
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#2
Dichlorodifluoromethane
Concen: 0.196 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

Tgt Ion: 85 Resp: 57082
Ion Ratio Lower Upper
85 100
87 30.3 27.2 40.8





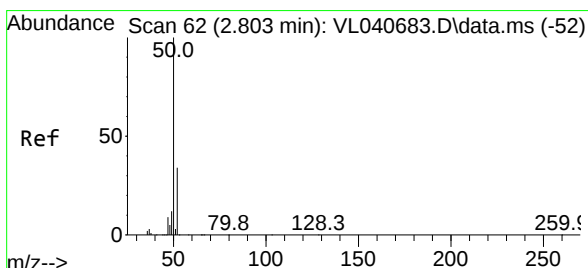
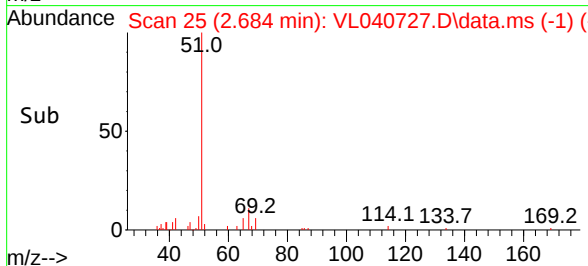
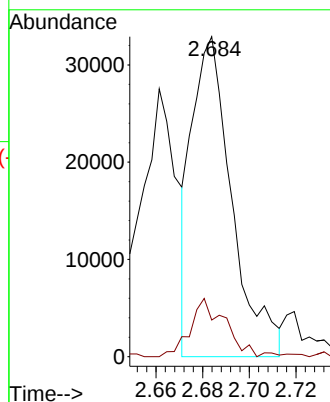
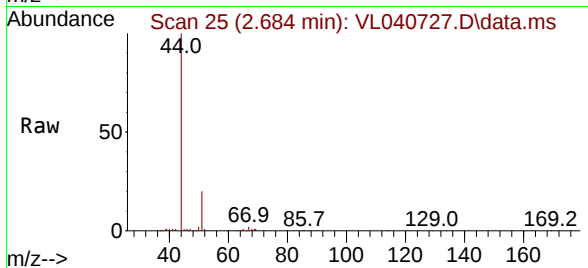
#3
Chlorodifluoromethane
Concen: 0.182 ppbv m
RT: 2.684 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

Instrument :
MSVOA_L
ClientSampleId :
SSG1

Tgt Ion: 51 Resp: 39289
Ion Ratio Lower Upper
51 100
67 1.7 16.7 25.1

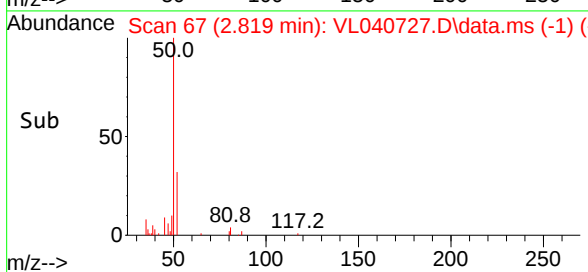
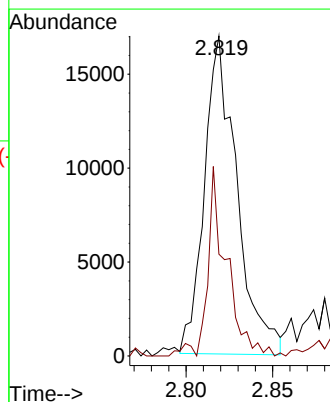
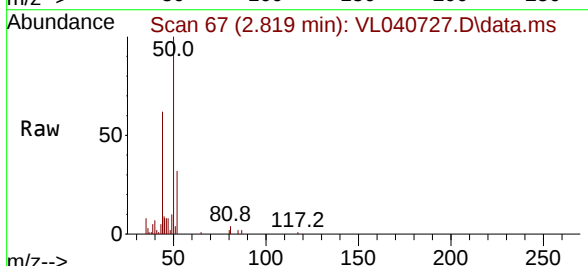
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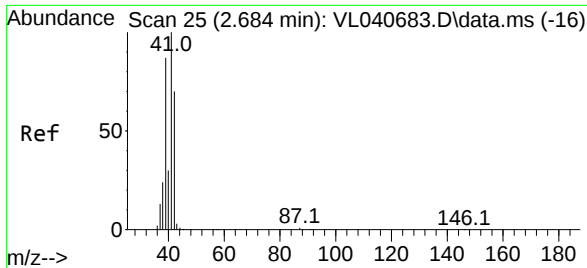
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#4
Chloromethane
Concen: 0.268 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.003 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

Tgt Ion: 50 Resp: 22097
Ion Ratio Lower Upper
50 100
52 31.3 27.1 40.7





#9

Propene

Concen: 1.148 ppbv

RT: 2.710 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL040727.D

Acq: 27 Sep 2023 14:49

Instrument :

MSVOA_L

ClientSampleId :

SSG1

Tgt Ion: 41 Resp: 7123

Ion Ratio Lower Upper

41 100

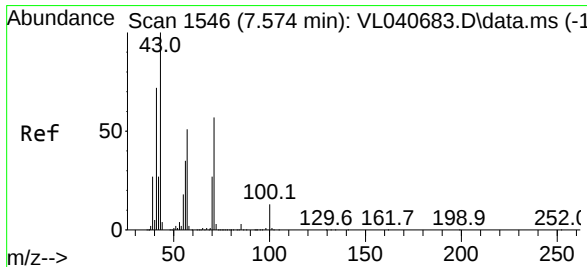
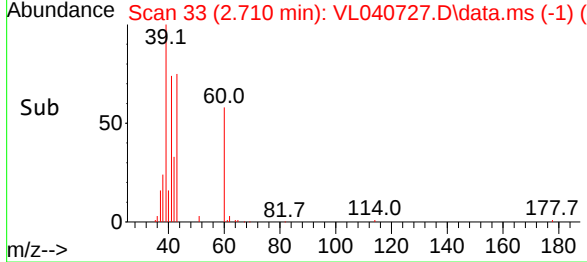
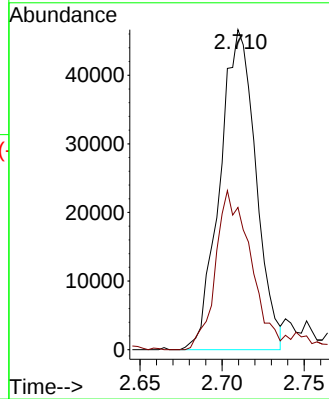
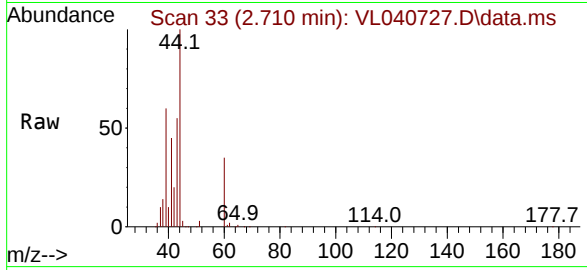
42 52.9 56.7 85.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/28/2023

Supervised By :Mahesh Dadoda 09/28/2023



#10

Heptane

Concen: 0.239 ppbv m

RT: 7.565 min Scan# 1543

Delta R.T. -0.022 min

Lab File: VL040727.D

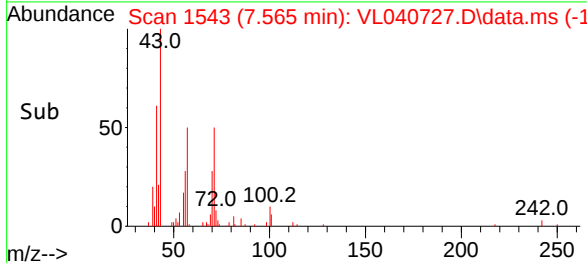
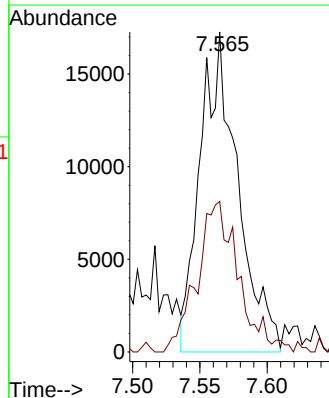
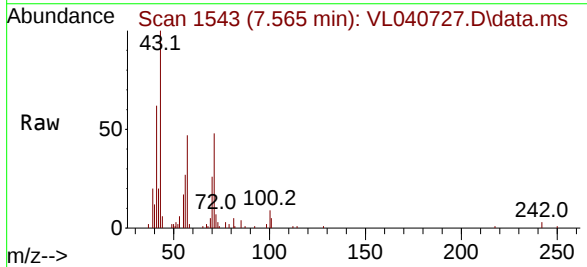
Acq: 27 Sep 2023 14:49

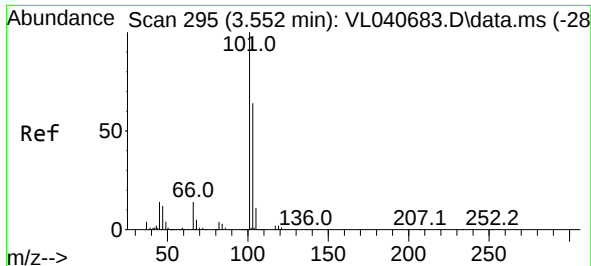
Tgt Ion: 43 Resp: 33370

Ion Ratio Lower Upper

43 100

57 53.7 41.8 62.6





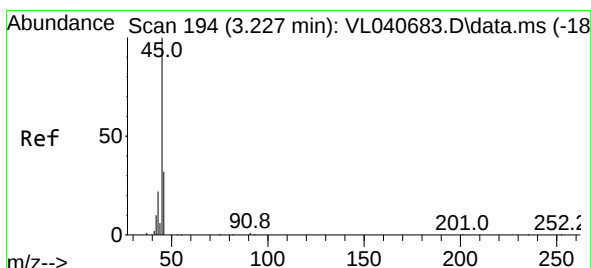
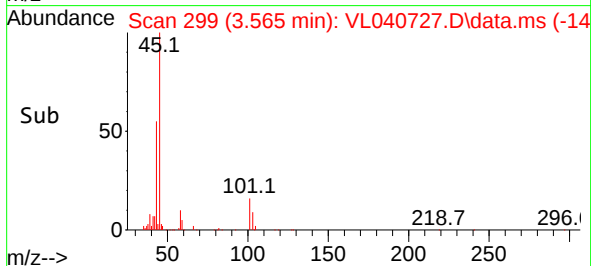
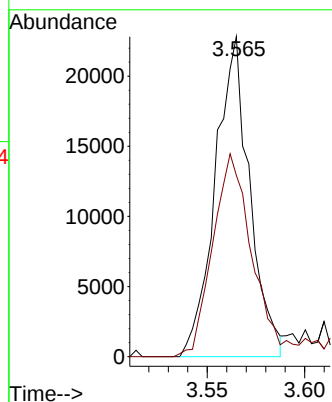
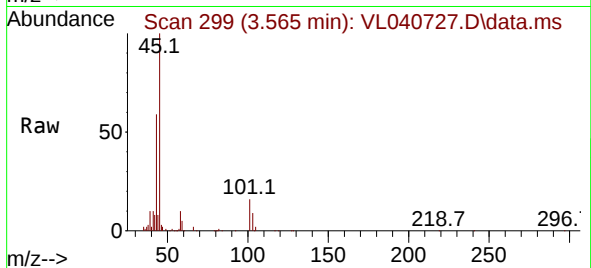
#11
Trichlorofluoromethane
Concen: 0.109 ppbv
RT: 3.565 min Scan# 295
Delta R.T. -0.003 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

Instrument :
MSVOA_L
ClientSampleId :
SSG1

Tgt Ion:101 Resp: 2804
Ion Ratio Lower Upper
101 100
103 55.7 51.3 76.9

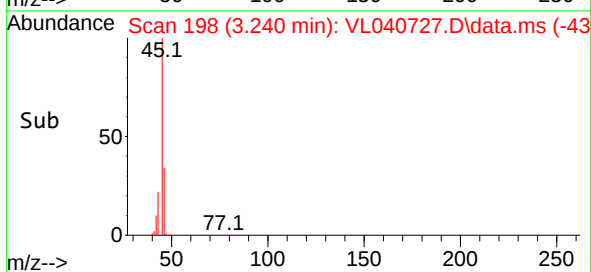
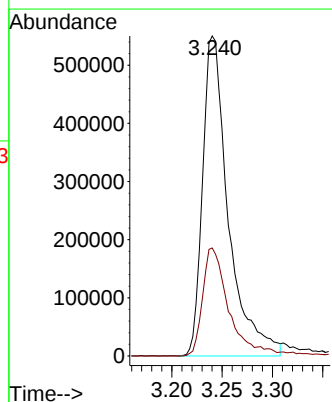
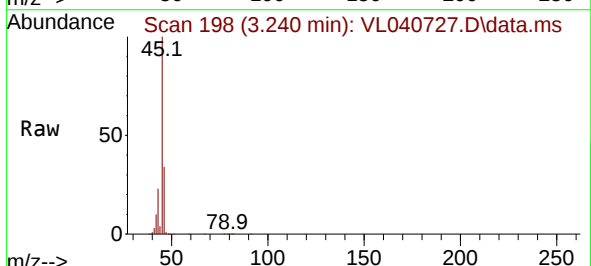
Manual Integrations
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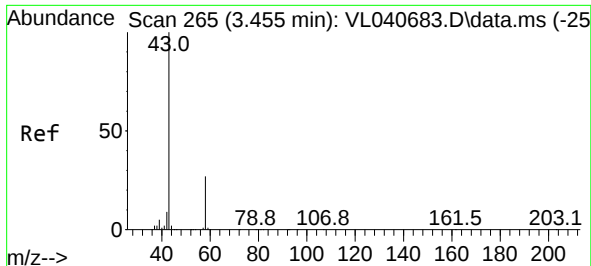
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#13
Ethanol
Concen: 53.333 ppbv
RT: 3.240 min Scan# 198
Delta R.T. -0.003 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

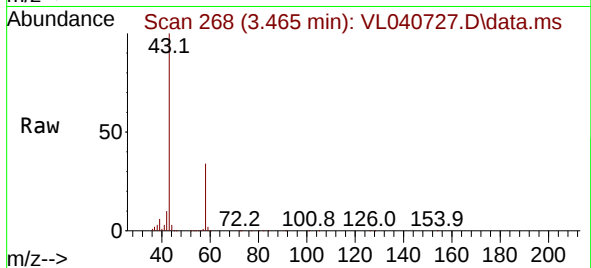
Tgt Ion: 45 Resp: 979804
Ion Ratio Lower Upper
45 100
46 35.4 15.2 61.0





#15
Acetone
Concen: 43.836 ppbv
RT: 3.465 min Scan# 20
Delta R.T. -0.006 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

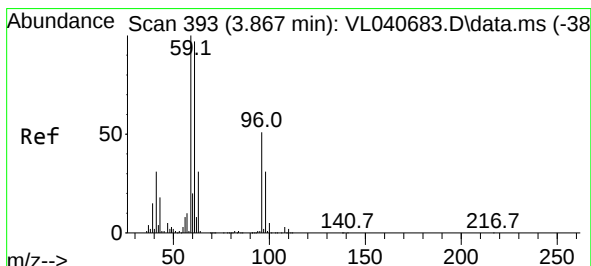
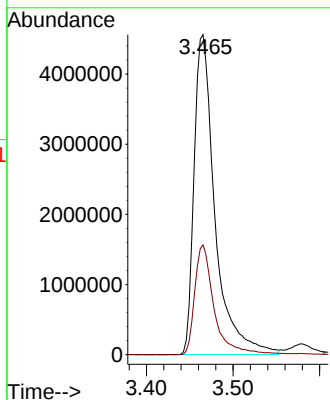
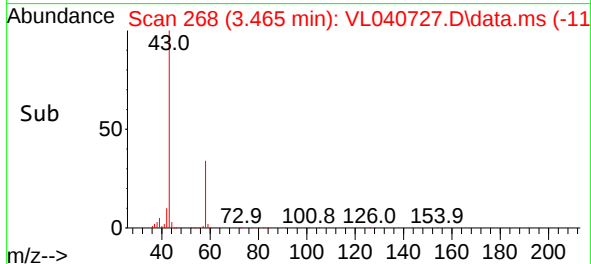
Instrument :
MSVOA_L
ClientSampleId :
SSG1



Tgt Ion: 43 Resp: 764692
Ion Ratio Lower Upper
43 100
58 32.5 22.6 34.0

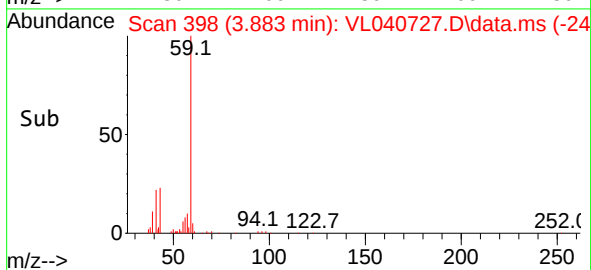
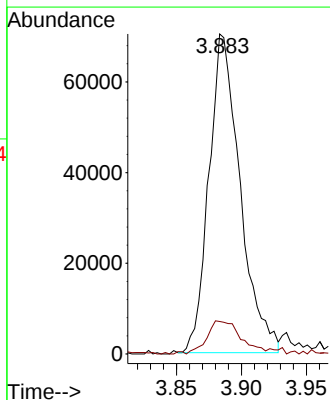
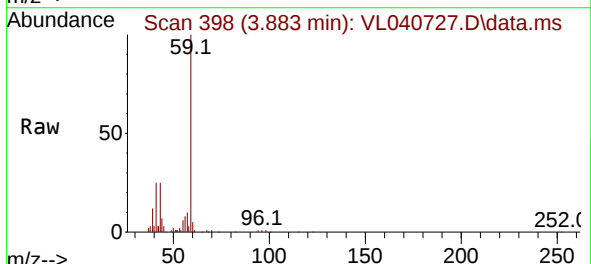
Manual Integrations
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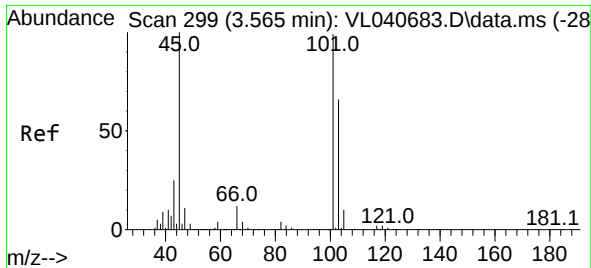
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#17
tert-Butyl alcohol
Concen: 0.657 ppbv
RT: 3.883 min Scan# 398
Delta R.T. 0.000 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

Tgt Ion: 59 Resp: 117393
Ion Ratio Lower Upper
59 100
57 12.6 8.7 13.1





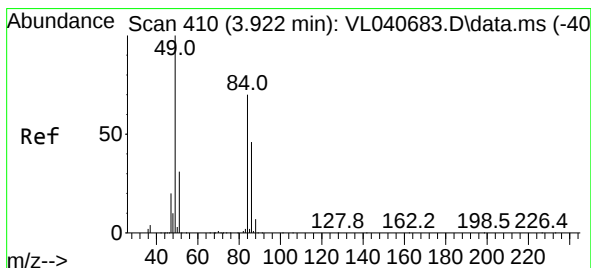
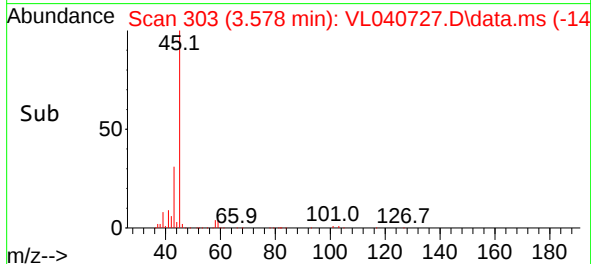
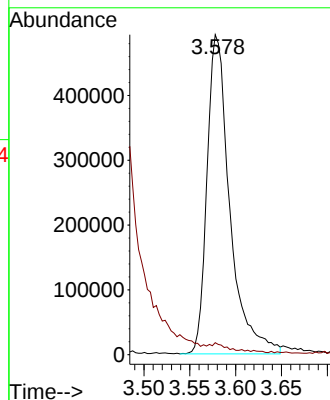
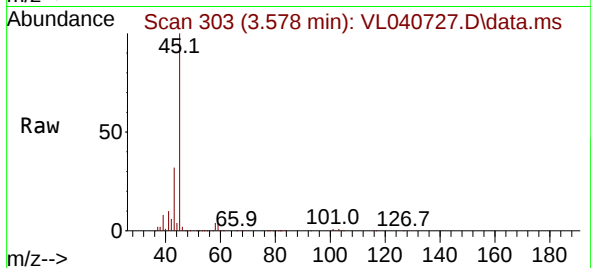
#19
Isopropyl Alcohol
Concen: 8.115 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.000 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

Instrument : MSVOA_L
ClientSampleId : SSG1

Tgt Ion: 45 Resp: 852978
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9

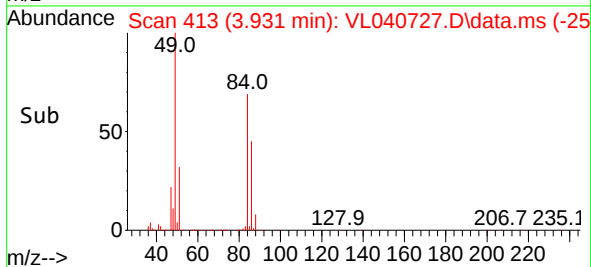
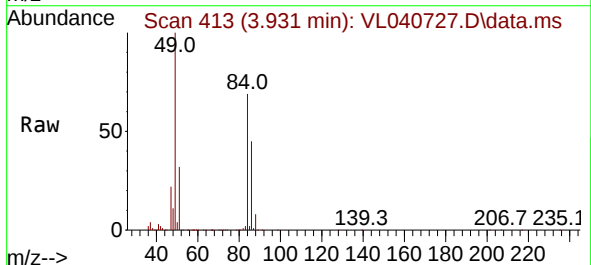
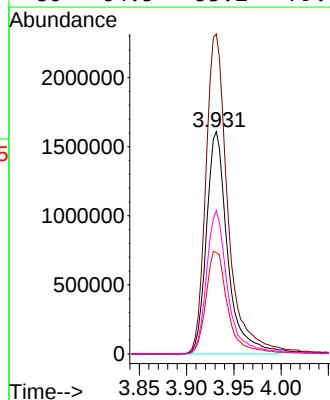
Manual Integrations
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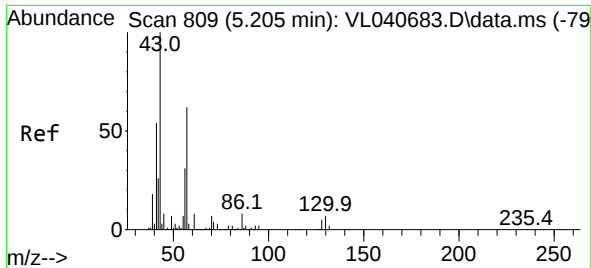
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#20
Methylene Chloride
Concen: 26.743 ppbv
RT: 3.931 min Scan# 413
Delta R.T. -0.006 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

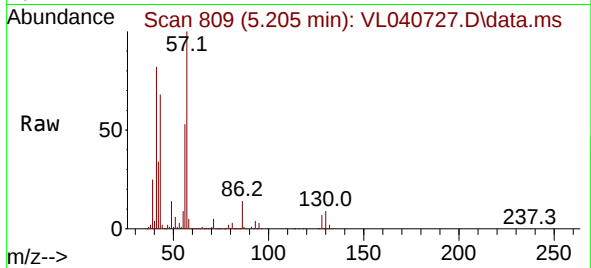
Tgt Ion: 84 Resp: 2510885
Ion Ratio Lower Upper
84 100
49 143.9 114.4 171.6
51 45.5 35.5 53.3
86 64.5 53.2 79.8





#26
Hexane
Concen: 16.530 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.016 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

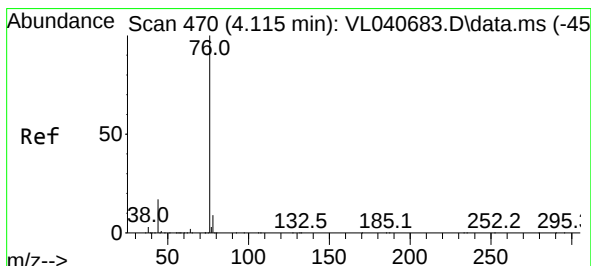
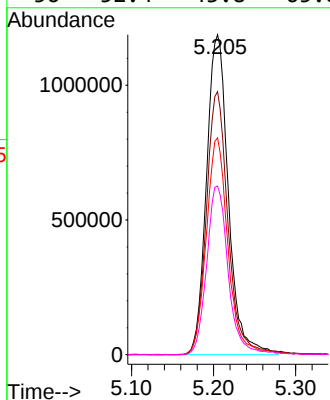
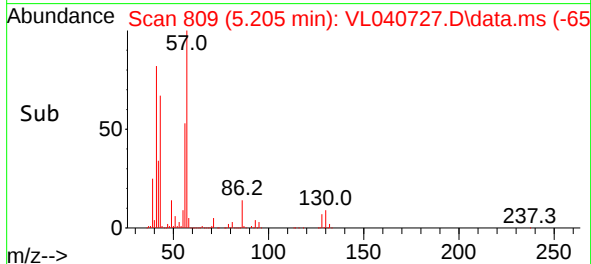
Instrument :
MSVOA_L
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SSG1



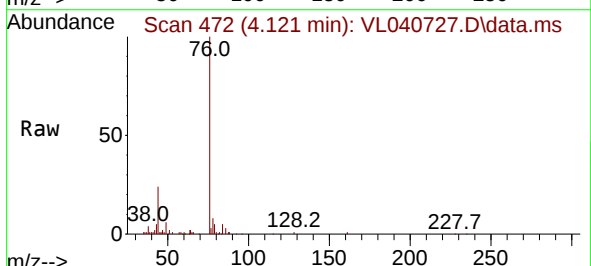
Tgt Ion: 57 Resp: 2199049
Ion Ratio Lower Upper
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41 82.4 75.2 112.8
43 67.8 185.6 278.4
56 52.4 43.8 65.8

Manual Integrations
APPROVED

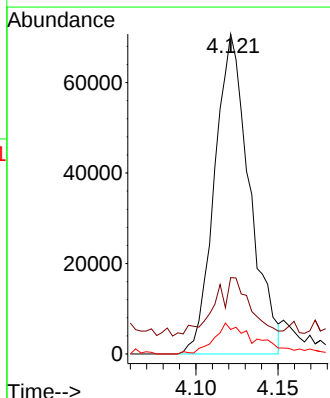
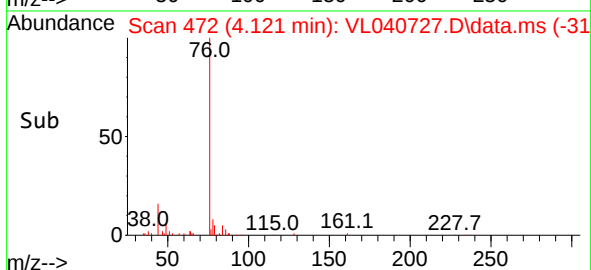
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023

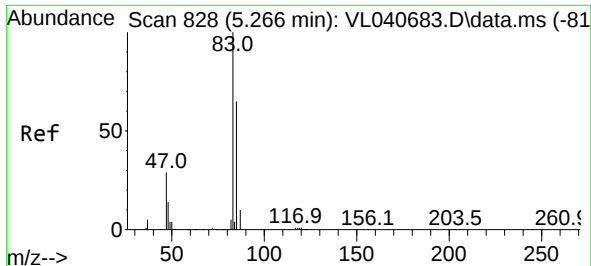


#27
Carbon Disulfide
Concen: 0.564 ppbv
RT: 4.121 min Scan# 472
Delta R.T. -0.010 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49



Tgt Ion: 76 Resp: 104649
Ion Ratio Lower Upper
76 100
44 21.3 14.5 21.7
78 13.2 7.7 11.5





#29

Chloroform

Concen: 0.051 ppbv

RT: 5.266 min Scan# 81

Delta R.T. -0.016 min

Lab File: VL040727.D

Acq: 27 Sep 2023 14:49

Instrument :

MSVOA_L

ClientSampleId :

SSG1

Tgt Ion: 83 Resp: 1176

Ion Ratio Lower Upper

83 100

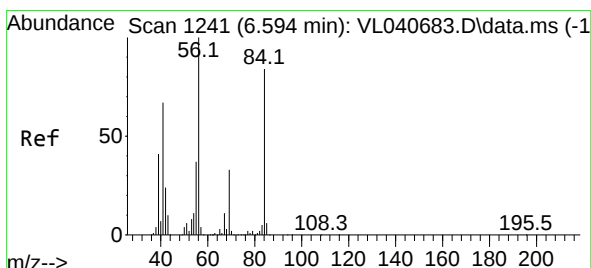
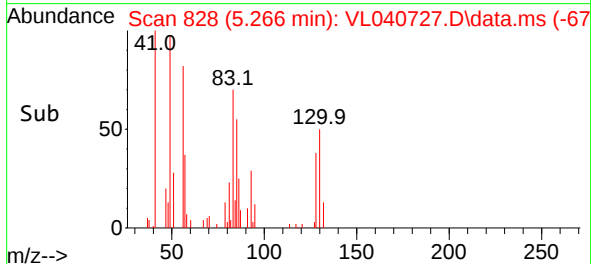
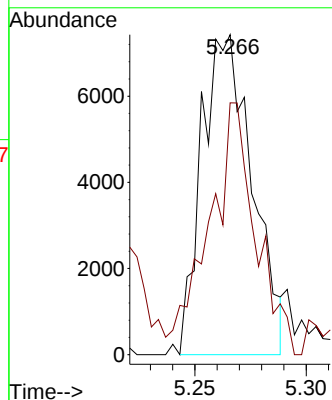
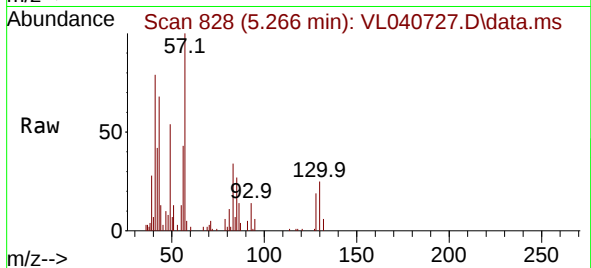
85 63.3 51.8 77.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/28/2023

Supervised By :Mahesh Dadoda 09/28/2023



#30

Cyclohexane

Concen: 0.124 ppbv m

RT: 6.590 min Scan# 1240

Delta R.T. -0.019 min

Lab File: VL040727.D

Acq: 27 Sep 2023 14:49

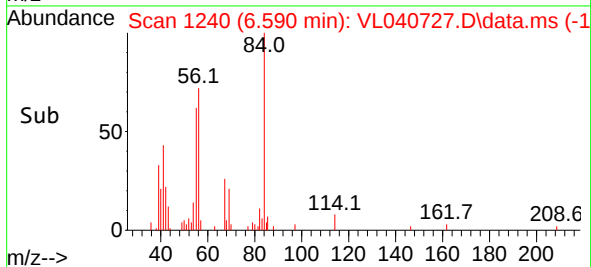
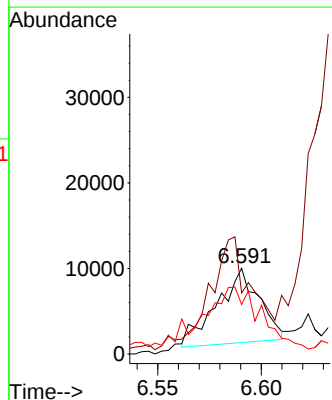
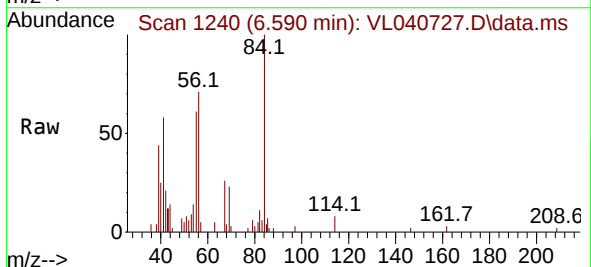
Tgt Ion: 84 Resp: 12435

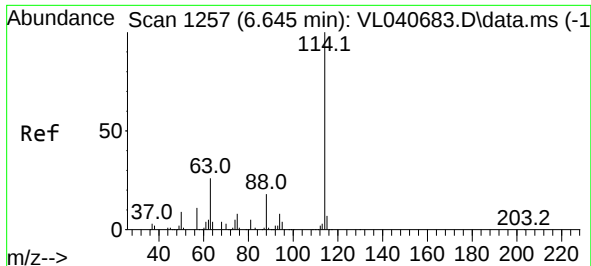
Ion Ratio Lower Upper

84 100

56 154.3 103.2 154.8

41 143.8 65.5 98.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 114

Delta R.T. -0.022 min

Lab File: VL040727.D

Acq: 27 Sep 2023 14:49

Instrument :

MSVOA_L

ClientSampleId :

SSG1

Tgt Ion:114 Resp: 3588270

Ion Ratio Lower Upper

114 100

63 23.6 21.1 31.7

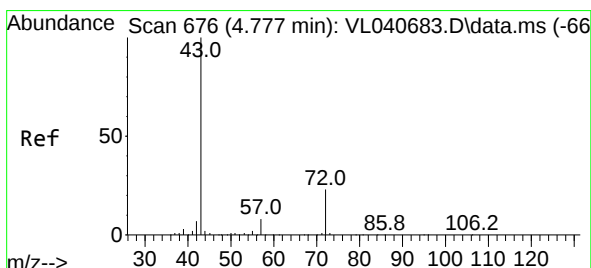
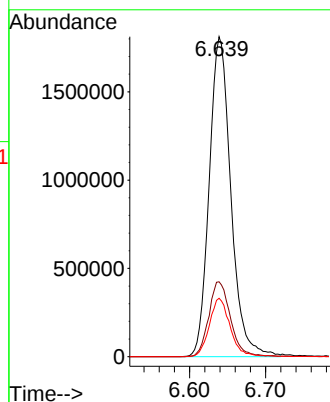
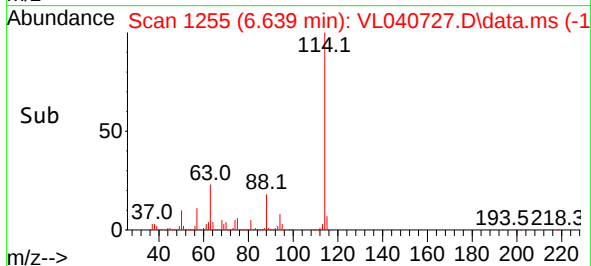
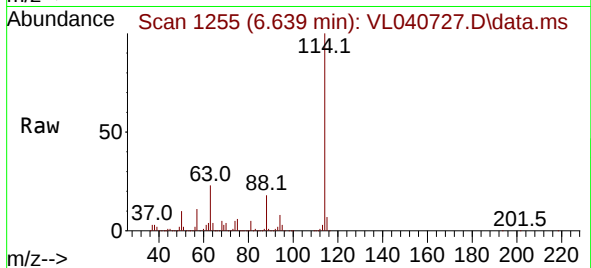
88 17.7 14.5 21.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/28/2023

Supervised By :Mahesh Dadoda 09/28/2023



#34

2-Butanone

Concen: 2.601 ppbv

RT: 4.777 min Scan# 676

Delta R.T. -0.013 min

Lab File: VL040727.D

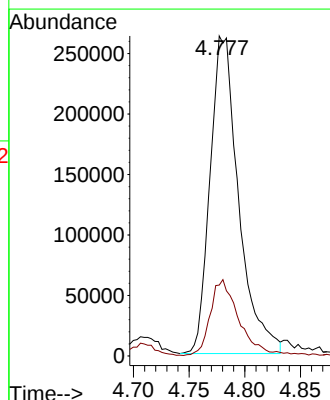
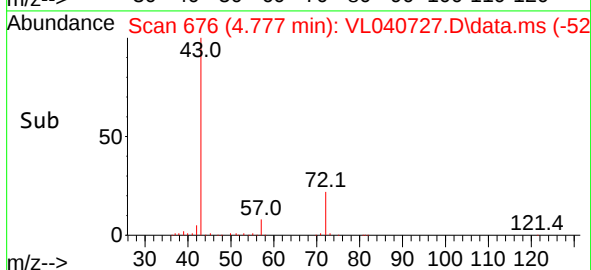
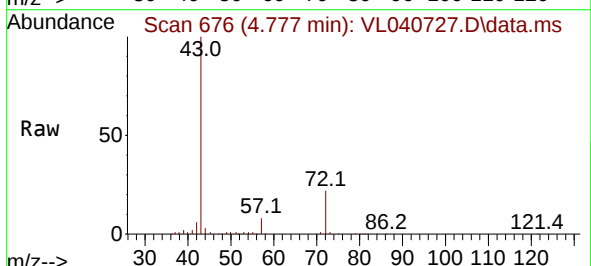
Acq: 27 Sep 2023 14:49

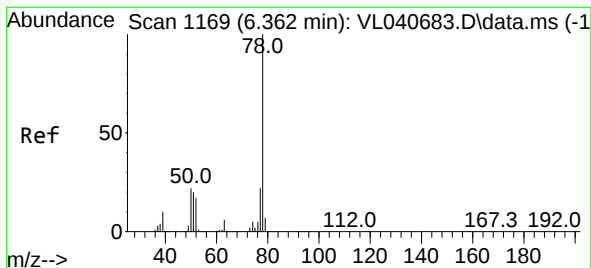
Tgt Ion: 43 Resp: 469380

Ion Ratio Lower Upper

43 100

72 24.6 18.6 27.8





#36

Benzene

Concen: 0.259 ppbv m

RT: 6.353 min Scan# 1166

Delta R.T. -0.029 min

Lab File: VL040727.D

Acq: 27 Sep 2023 14:49

Instrument :

MSVOA_L

ClientSampleId :

SSG1

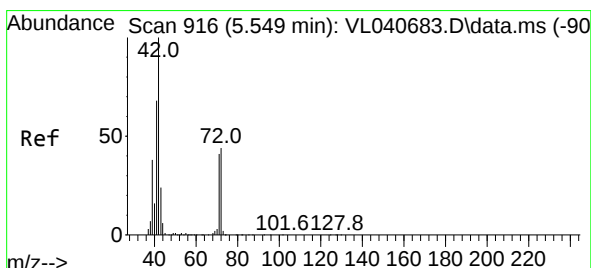
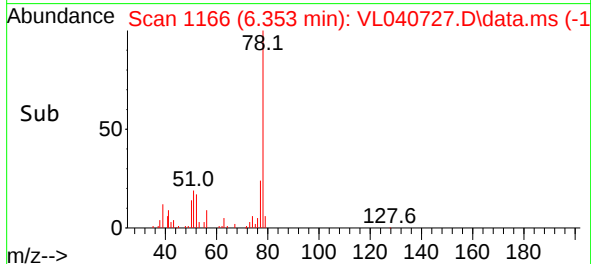
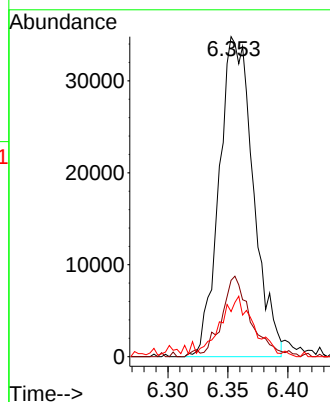
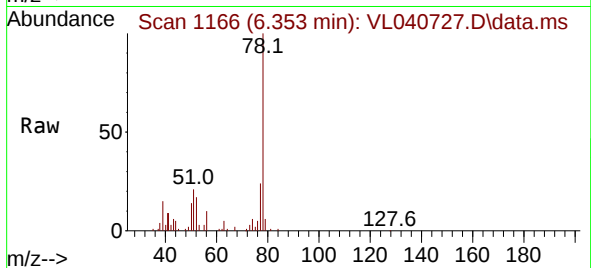
Tgt Ion: 78 Resp: 6881

Ion	Ratio	Lower	Upper
78	100		
77	23.9	17.9	26.9
50	14.1	17.3	25.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#41

Tetrahydrofuran

Concen: 1.015 ppbv m

RT: 5.552 min Scan# 917

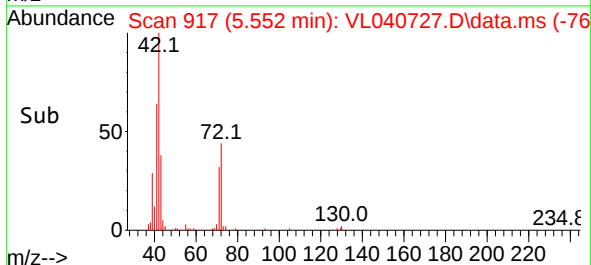
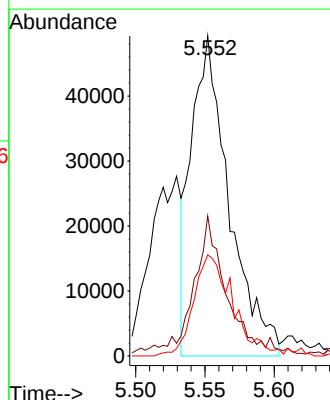
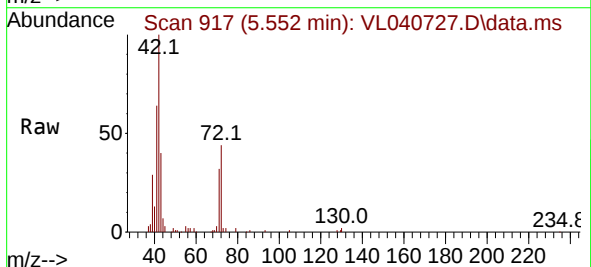
Delta R.T. -0.010 min

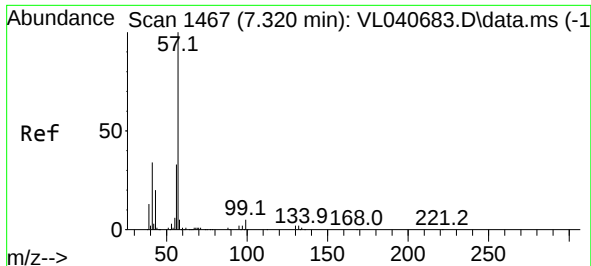
Lab File: VL040727.D

Acq: 27 Sep 2023 14:49

Tgt Ion: 42 Resp: 93894

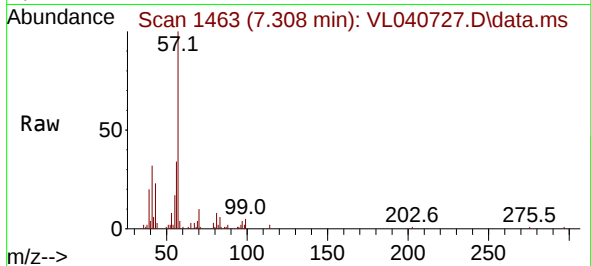
Ion	Ratio	Lower	Upper
42	100		
72	40.3	34.9	52.3
71	33.7	33.8	50.8





#44
2,2,4-Trimethylpentane
Concen: 0.118 ppbv m
RT: 7.308 min Scan# 1463
Delta R.T. -0.029 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

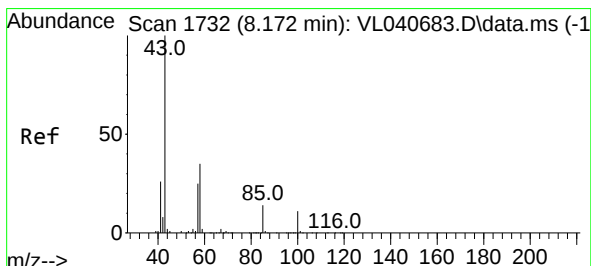
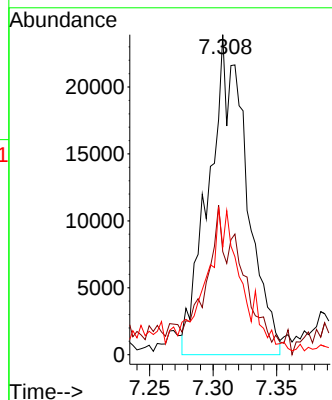
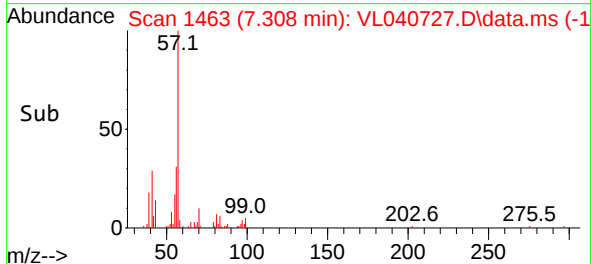
Instrument :
MSVOA_L
ClientSampleId :
SSG1



Tgt Ion: 57 Resp: 49890
Ion Ratio Lower Upper
57 100
41 0.0 28.5 42.7
56 0.0 25.4 38.2

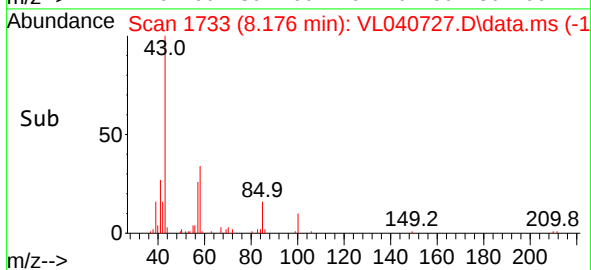
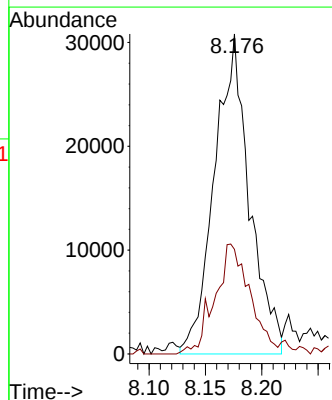
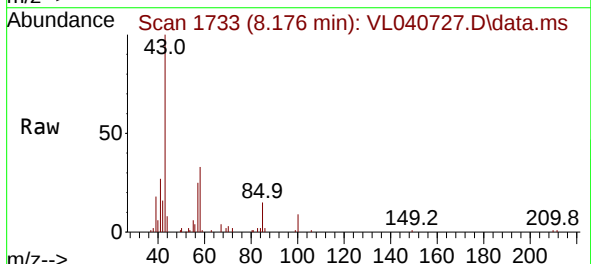
Manual Integrations
APPROVED

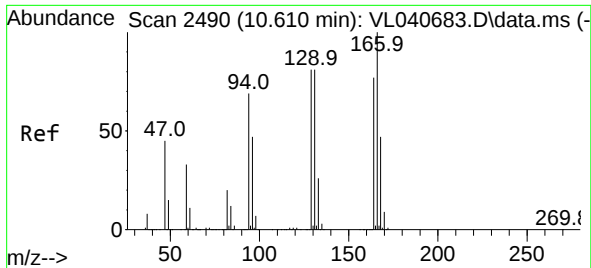
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#50
4-Methyl-2-Pentanone
Concen: 0.272 ppbv m
RT: 8.176 min Scan# 1733
Delta R.T. -0.016 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

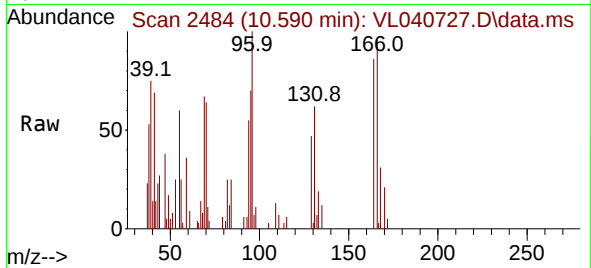
Tgt Ion: 43 Resp: 66368
Ion Ratio Lower Upper
43 100
58 0.0 28.2 42.4





#52
Tetrachloroethene
Concen: 0.106 ppbv m
RT: 10.590 min Scan# 2490
Delta R.T. -0.035 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

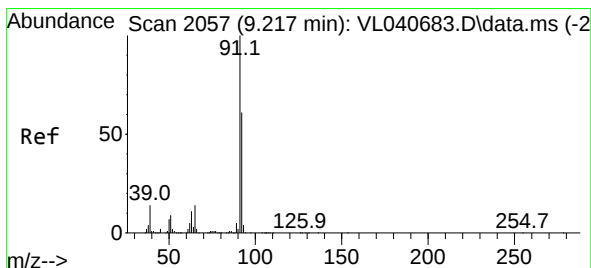
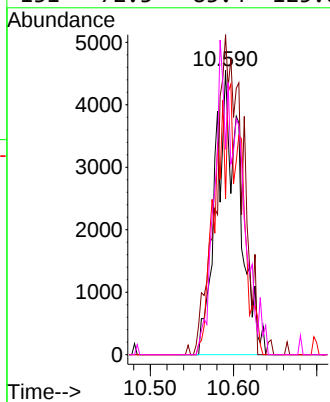
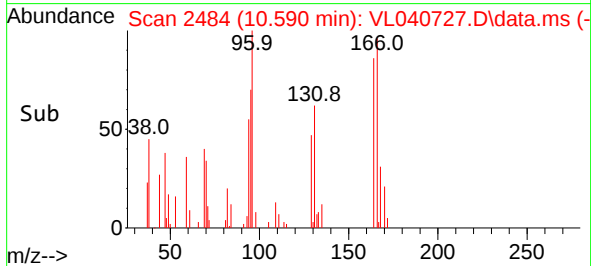
Instrument :
MSVOA_L
ClientSampleId :
SSG1



Tgt Ion:164 Resp: 9180
Ion Ratio Lower Upper
164 100
166 112.6 103.4 155.2
129 54.9 83.5 125.3
131 72.3 83.4 125.0#

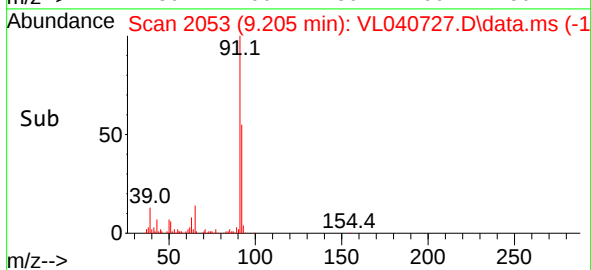
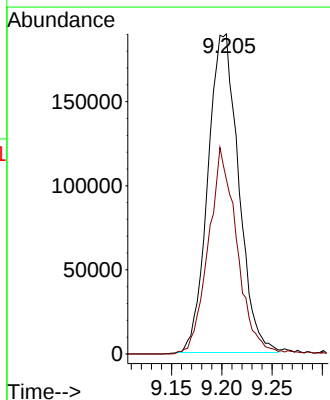
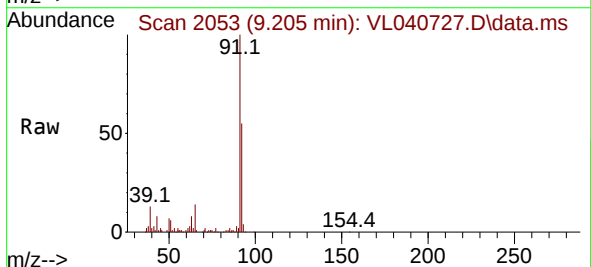
Manual Integrations
APPROVED

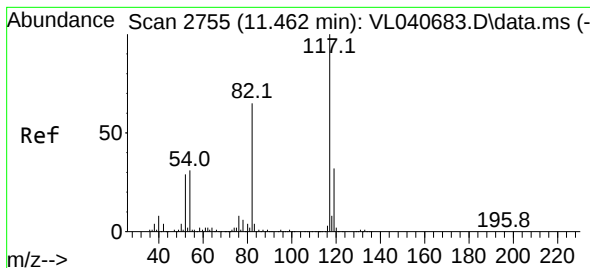
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#53
Toluene
Concen: 1.434 ppbv
RT: 9.205 min Scan# 2053
Delta R.T. -0.026 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

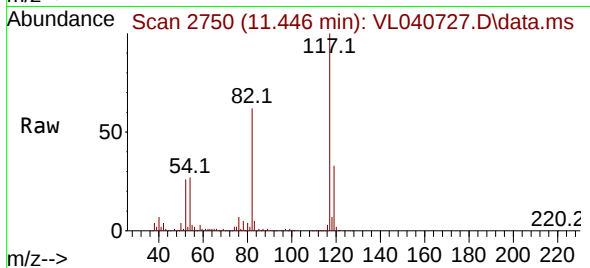
Tgt Ion: 91 Resp: 402385
Ion Ratio Lower Upper
91 100
92 60.8 48.5 72.7





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 2119
Delta R.T. -0.032 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

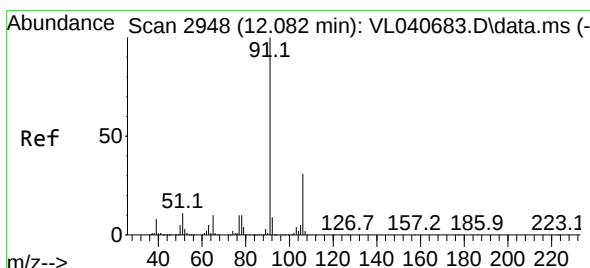
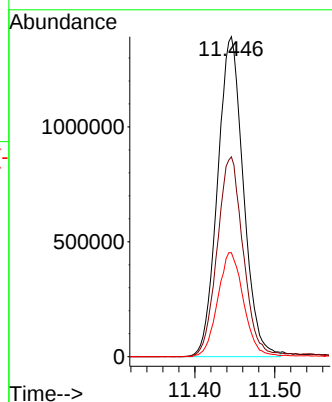
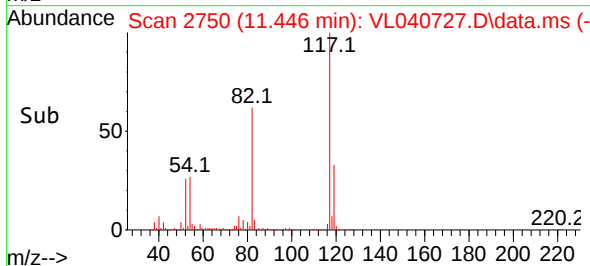
Instrument :
MSVOA_L
ClientSampleId :
SSG1



Tgt Ion:117 Resp: 3119920
Ion Ratio Lower Upper
117 100
82 64.7 51.4 77.0
119 33.0 24.7 37.1

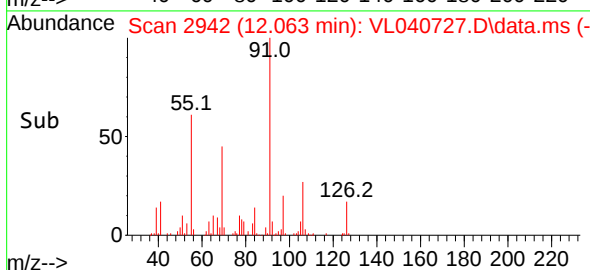
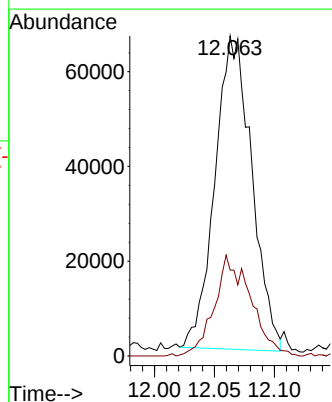
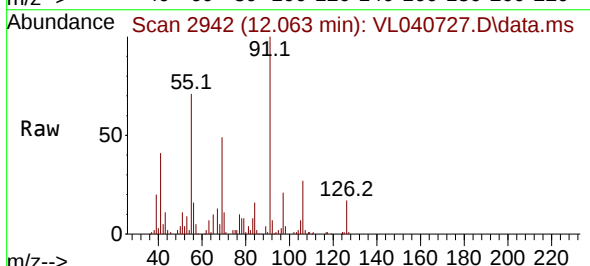
Manual Integrations
APPROVED

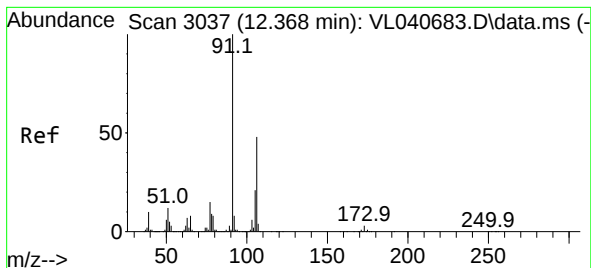
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#58
Ethyl Benzene
Concen: 0.397 ppbv
RT: 12.063 min Scan# 2942
Delta R.T. -0.038 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

Tgt Ion: 91 Resp: 141295
Ion Ratio Lower Upper
91 100
106 27.3 24.7 37.1





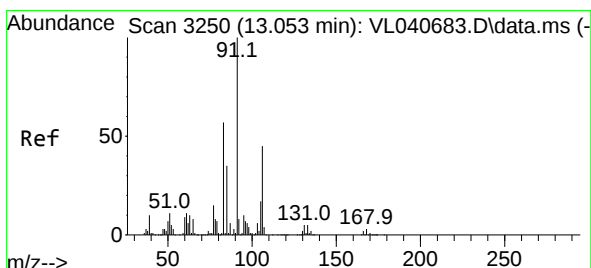
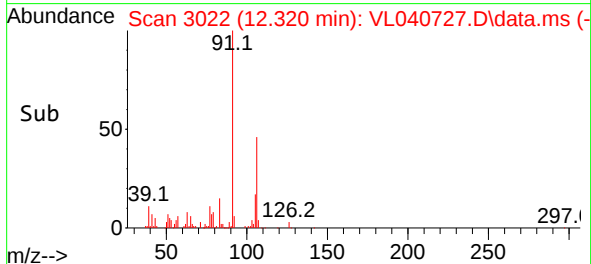
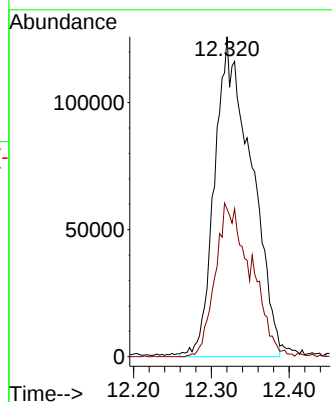
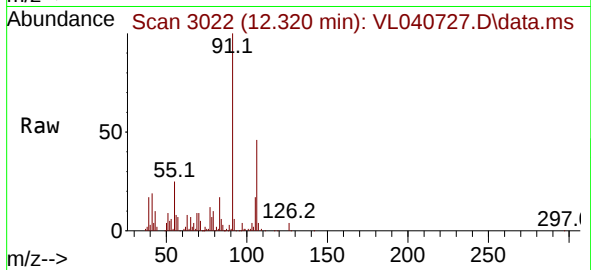
#59
m/p-Xylene
Concen: 1.231 ppbv m
RT: 12.320 min Scan# 3037
Delta R.T. -0.061 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

Instrument :
MSVOA_L
ClientSampleId :
SSG1

Tgt Ion: 91 Resp: 41127
Ion Ratio Lower Upper
91 100
106 0.0 34.8 52.2

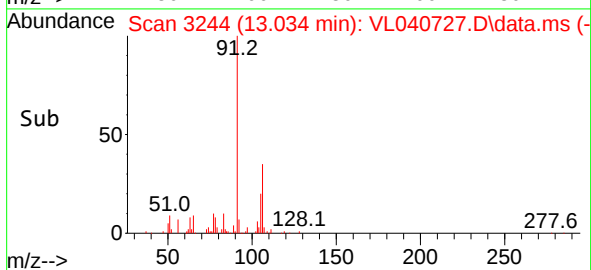
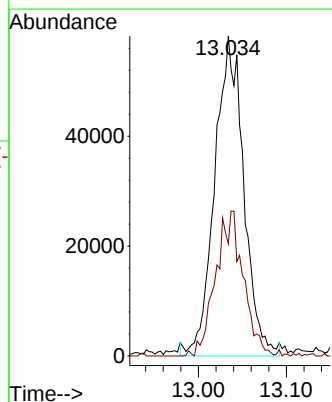
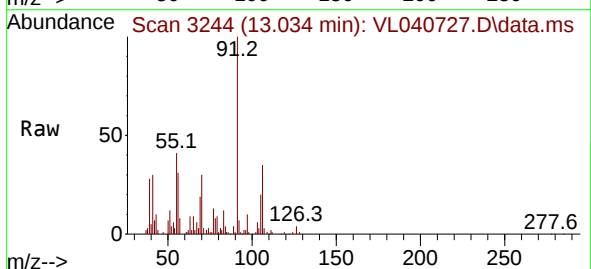
Manual Integrations
APPROVED

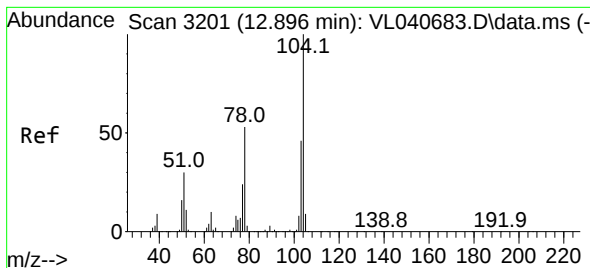
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023



#60
o-Xylene
Concen: 0.419 ppbv m
RT: 13.034 min Scan# 3244
Delta R.T. -0.035 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

Tgt Ion: 91 Resp: 133432
Ion Ratio Lower Upper
91 100
106 43.4 22.3 66.9





#61

Styrene

Concen: 4.051 ppbv

RT: 12.876 min Scan# 31

Delta R.T. -0.029 min

Lab File: VL040727.D

Acq: 27 Sep 2023 14:49

Instrument :

MSVOA_L

ClientSampleId :

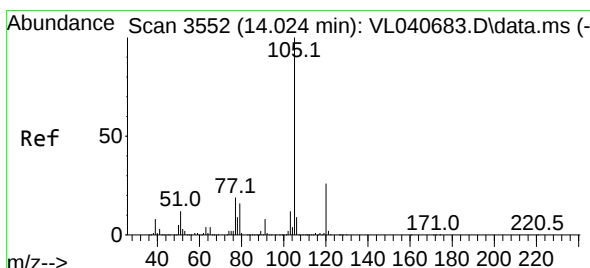
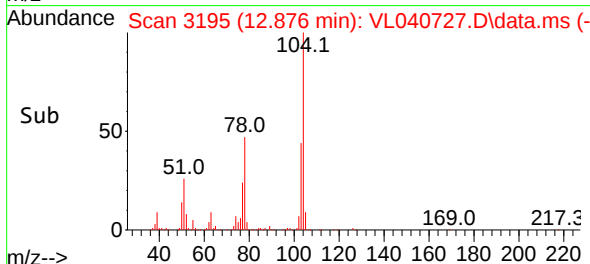
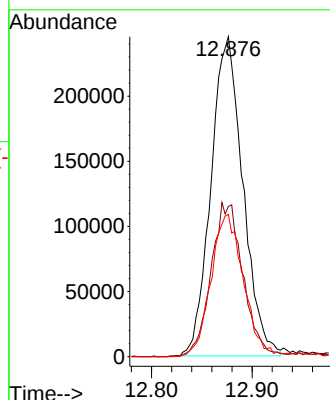
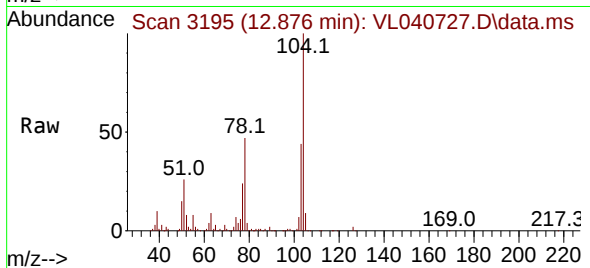
SSG1

Tgt Ion:104 Resp: 54079
 Ion Ratio Lower Upper
 104 100
 78 48.7 43.4 65.0
 103 46.2 37.2 55.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/28/2023
 Supervised By :Mahesh Dadoda 09/28/2023



#62

Isopropylbenzene

Concen: 3.251 ppbv

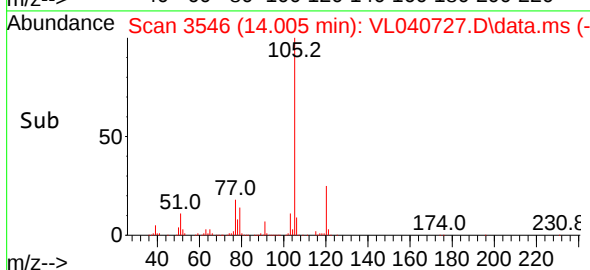
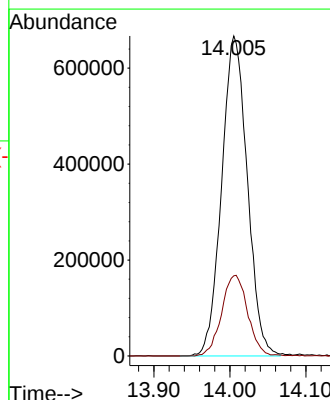
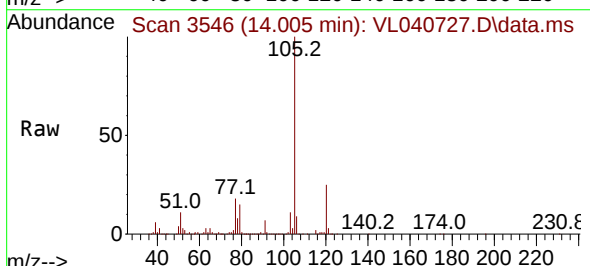
RT: 14.005 min Scan# 3546

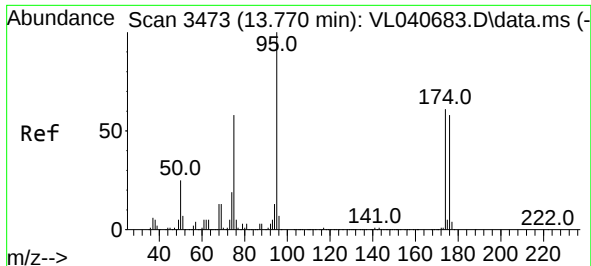
Delta R.T. -0.032 min

Lab File: VL040727.D

Acq: 27 Sep 2023 14:49

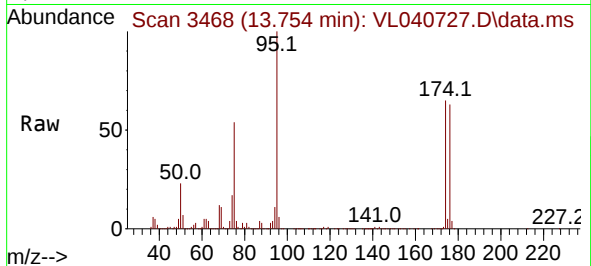
Tgt Ion:105 Resp: 1563679
 Ion Ratio Lower Upper
 105 100
 120 25.7 20.2 30.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.743 ppbv
RT: 13.754 min Scan# 3473
Delta R.T. -0.032 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49

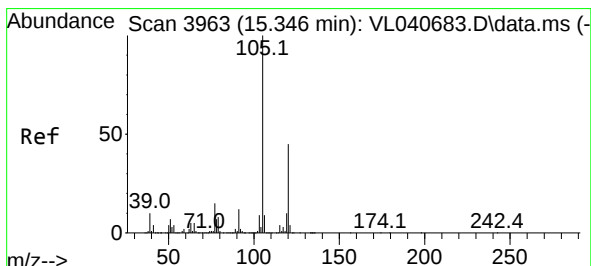
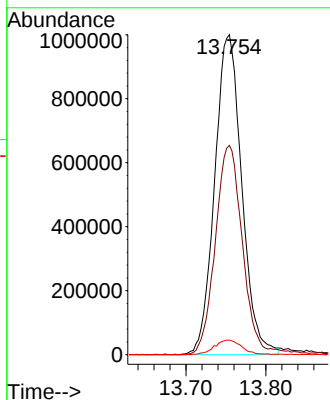
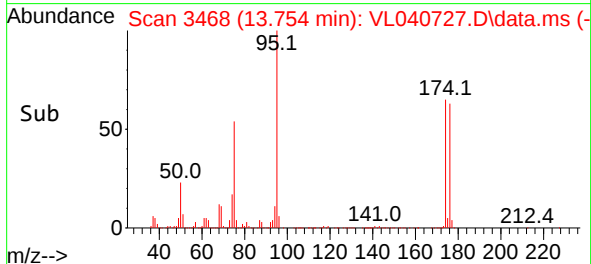
Instrument :
MSVOA_L
ClientSampleId :
SSG1



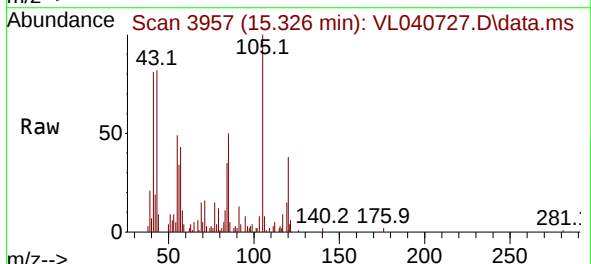
Tgt Ion: 95 Resp: 234845
Ion Ratio Lower Upper
95 100
174 66.9 48.9 73.3
175 4.7 3.5 5.3

Manual Integrations
APPROVED

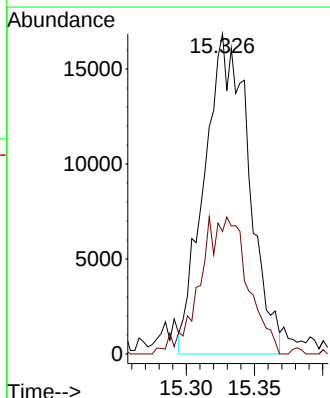
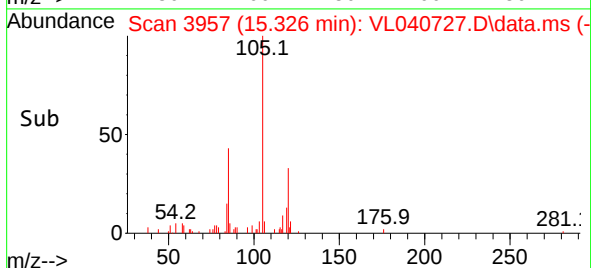
Reviewed By :Semsettin Yesilyurt 09/28/2023
Supervised By :Mahesh Dadoda 09/28/2023

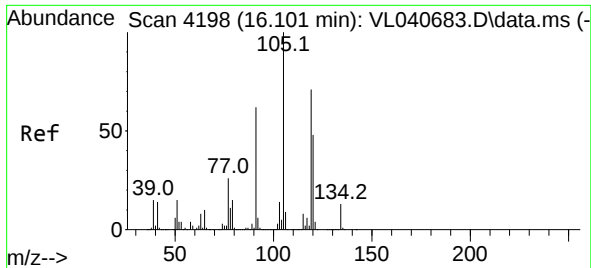


#73
1,3,5-Trimethylbenzene
Concen: 0.119 ppbv m
RT: 15.326 min Scan# 3957
Delta R.T. -0.035 min
Lab File: VL040727.D
Acq: 27 Sep 2023 14:49



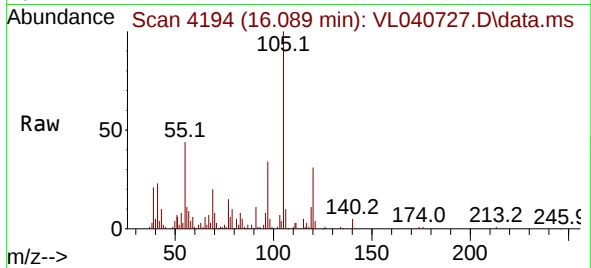
Tgt Ion:105 Resp: 38176
Ion Ratio Lower Upper
105 100
120 38.3 36.1 54.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.341 ppbv m
 RT: 16.089 min Scan# 4194
 Delta R.T. -0.029 min
 Lab File: VL040727.D
 Acq: 27 Sep 2023 14:49

Instrument :
 MSVOA_L
 ClientSampleId :
 SSG1



Tgt Ion:	105	Resp:	13384
Ion	Ratio	Lower	Upper
105	100		
120	30.5	38.6	57.8
91	10.6	50.0	75.0
77	14.6	20.6	31.0

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/28/2023
 Supervised By :Mahesh Dadoda 09/28/2023

