

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041907.D
 Acq On : 14 Jan 2025 23:52
 Operator : SY/MD
 Sample : Q1073-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 04:22:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	138825	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	414276	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	367457	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	288793	9.978	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						Qvalue
8) Dichlorotetrafluoroethane	1.554	85	3138	0.190	ppbv	85
10) Heptane	4.981	43	3587m	0.164	ppbv	
13) Ethanol	1.725	45	20629m	34.512	ppbv	
15) Acetone	1.839	43	115916	6.952	ppbv	93
17) tert-Butyl alcohol	2.046	59	9302	0.453	ppbv #	83
19) Isopropyl Alcohol	1.890	45	72150m	7.298	ppbv	
26) Hexane	2.829	57	17822	1.002	ppbv #	34
34) 2-Butanone	2.564	43	50071	1.901	ppbv	98
36) Benzene	3.667	78	6801	0.179	ppbv #	89
41) Tetrahydrofuran	3.069	42	3912m	0.273	ppbv	
51) 2-Hexanone	7.454	43	13871	0.502	ppbv #	98
52) Tetrachloroethene	8.228	164	999m	0.076	ppbv	
53) Toluene	6.940	91	30861	0.746	ppbv	98
58) Ethyl Benzene	9.361	91	1800165	31.347	ppbv	94
60) o-Xylene	9.969	91	8606	0.188	ppbv	100
61) Styrene	9.875	104	299816	14.628	ppbv	98
62) Isopropylbenzene	10.545	105	24044	0.340	ppbv	99
64) n-propylbenzene	10.992	120	1829	0.102	ppbv	65
74) 1,2,4-Trimethylbenzene	11.539	105	6607	0.126	ppbv #	53

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

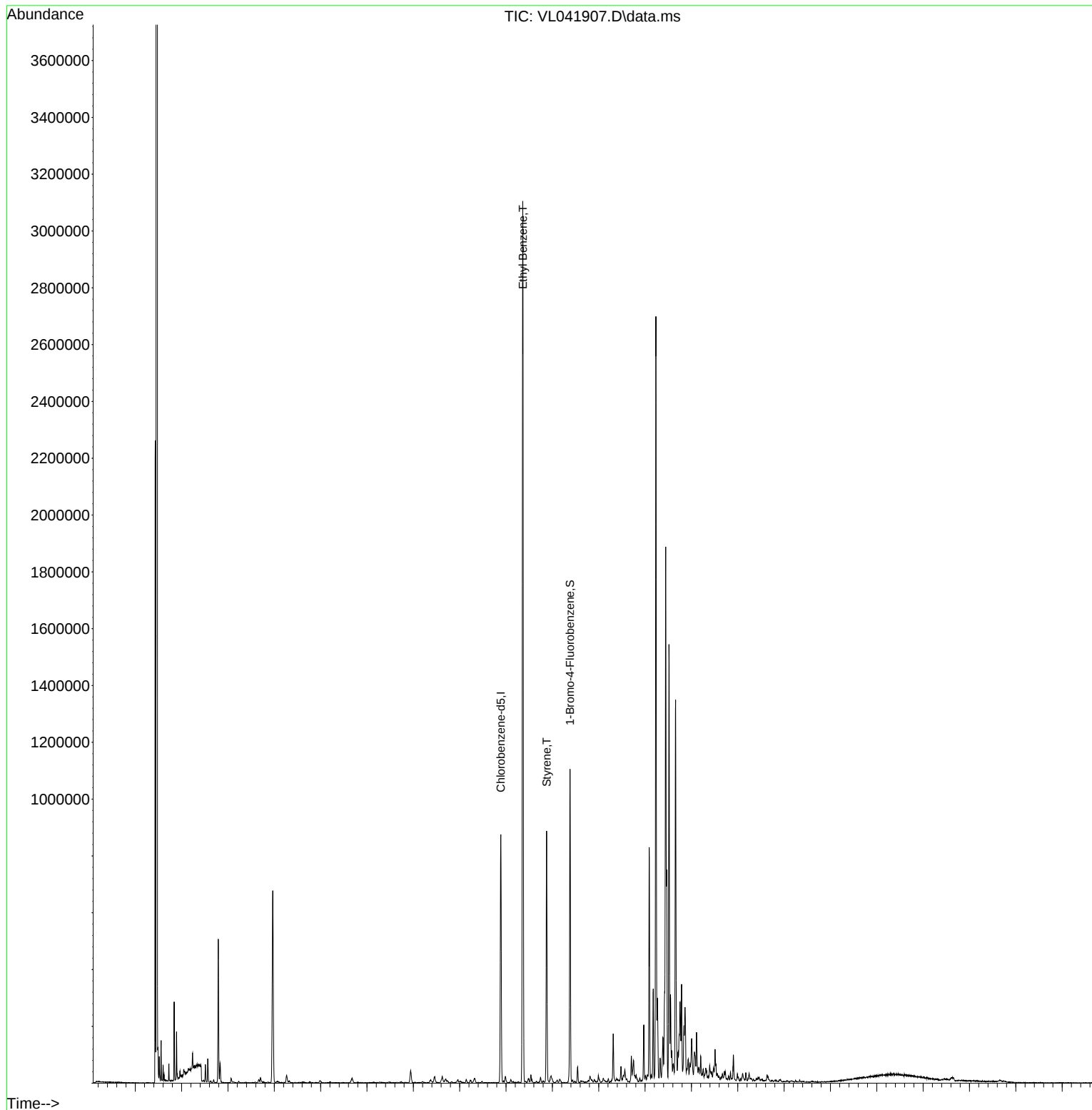
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041907.D
Acq On : 14 Jan 2025 23:52
Operator : SY/MD
Sample : Q1073-03 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

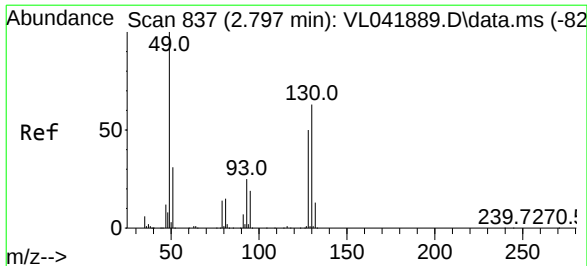
Instrument :
MSVOA_L
ClientSampleId :
SV3

Quant Time: Jan 15 04:22:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

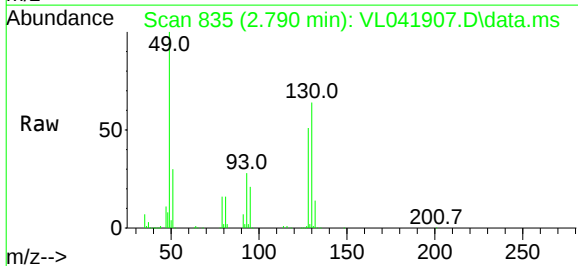
Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 83
Delta R.T. -0.007 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

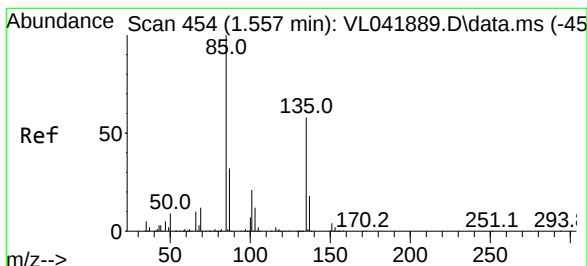
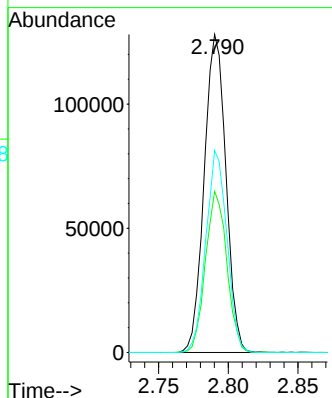
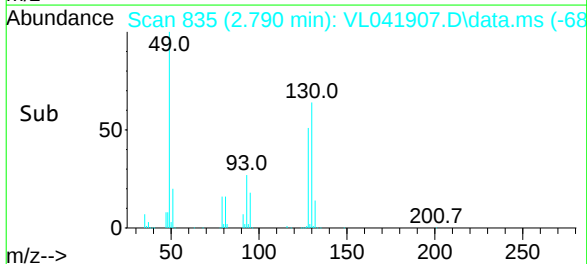
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 49 Resp: 138825
Ion Ratio Lower Upper
49 100
128 49.8 24.3 73.0
130 61.6 31.1 93.2

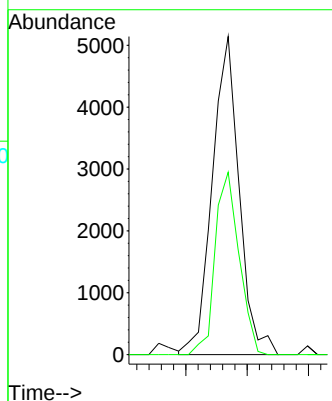
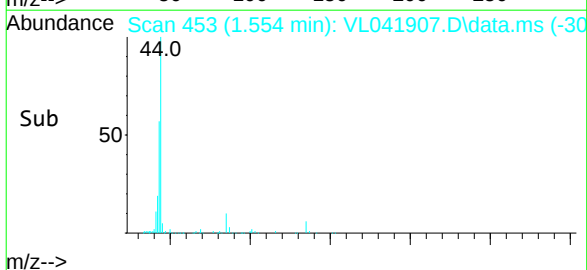
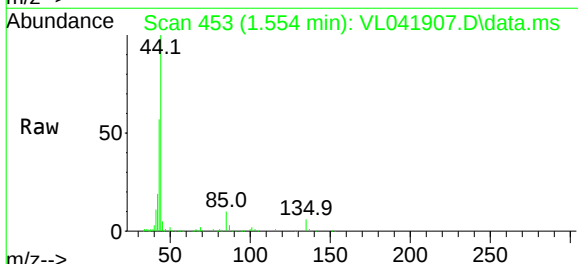
Manual Integrations
APPROVED

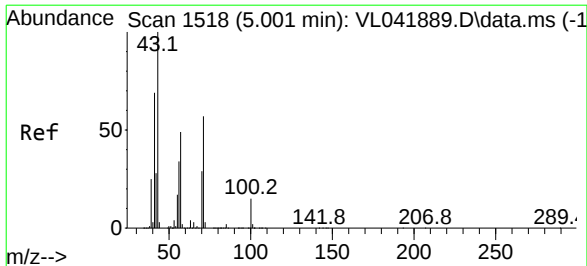
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#8
Dichlorotetrafluoroethane
Concen: 0.190 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.003 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Tgt Ion: 85 Resp: 3138
Ion Ratio Lower Upper
85 100
135 51.1 50.0 75.0





#10

Heptane

Concen: 0.164 ppbv m

RT: 4.981 min Scan# 1518

Delta R.T. -0.019 min

Lab File: VL041907.D

Acq: 14 Jan 2025 23:52

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion: 43 Resp: 3587

Ion Ratio Lower Upper

43 100

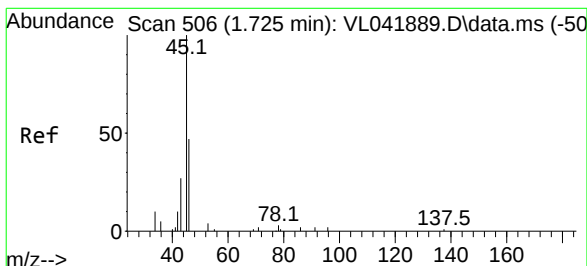
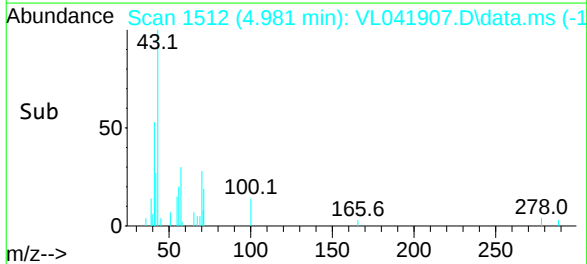
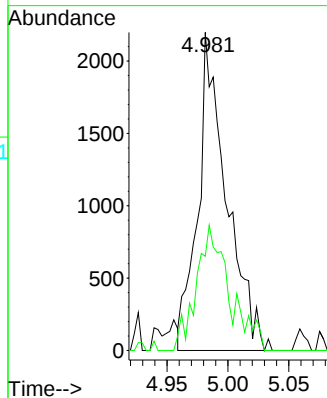
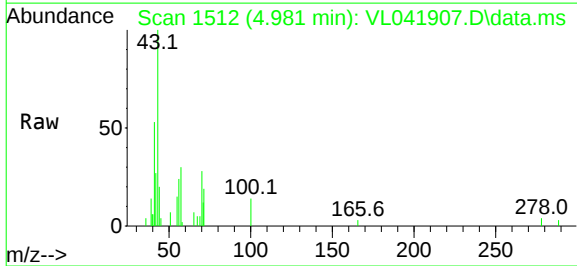
57 45.6 41.0 61.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#13

Ethanol

Concen: 34.512 ppbv m

RT: 1.725 min Scan# 506

Delta R.T. 0.000 min

Lab File: VL041907.D

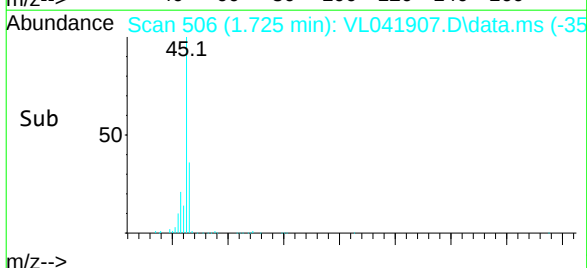
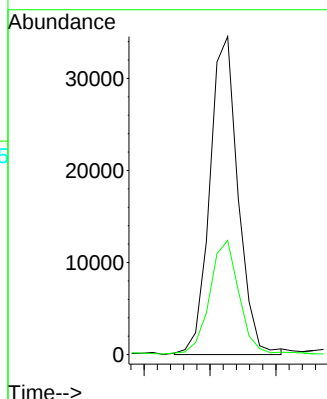
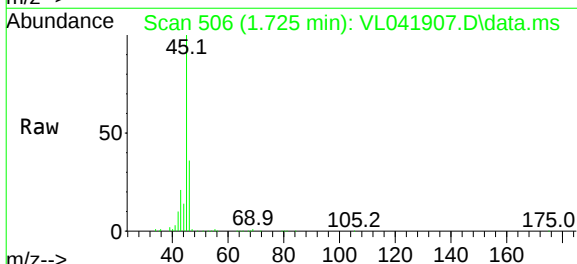
Acq: 14 Jan 2025 23:52

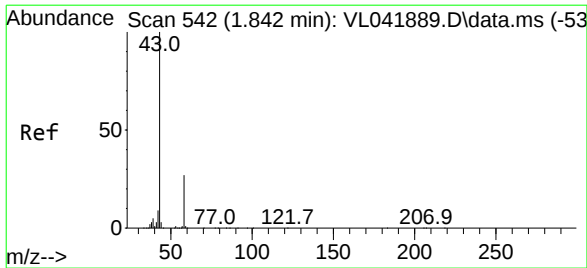
Tgt Ion: 45 Resp: 20629

Ion Ratio Lower Upper

45 100

46 0.0 18.1 72.5#





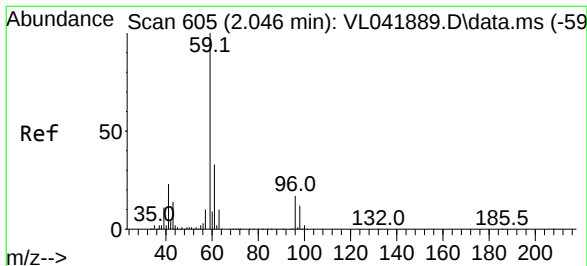
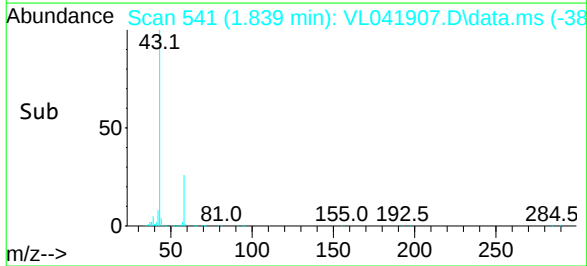
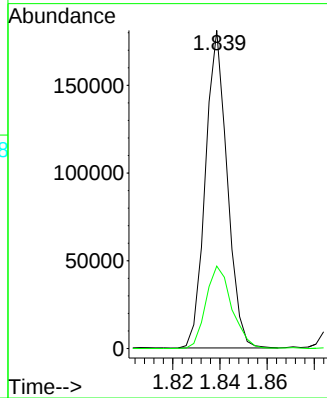
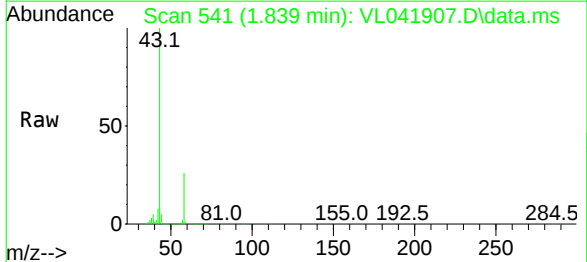
#15
Acetone
Concen: 6.952 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 43 Resp: 115916
Ion Ratio Lower Upper
43 100
58 31.0 21.9 32.9

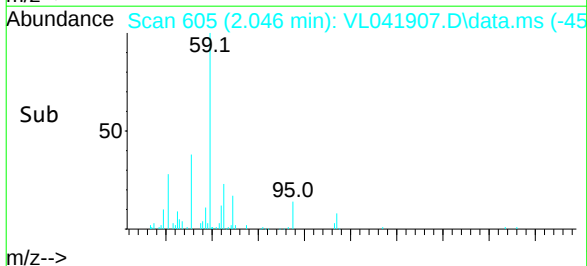
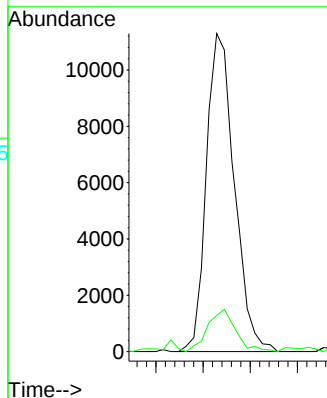
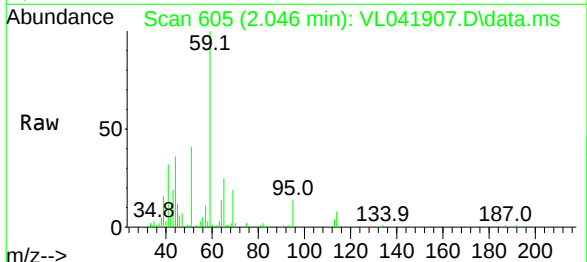
Manual Integrations
APPROVED

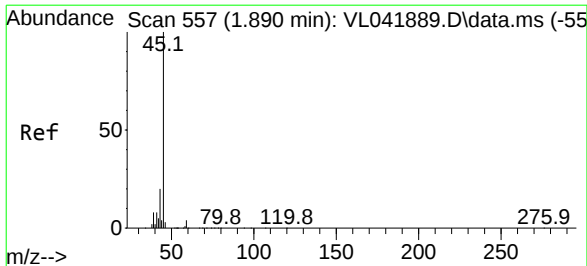
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#17
tert-Butyl alcohol
Concen: 0.453 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.000 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Tgt Ion: 59 Resp: 9302
Ion Ratio Lower Upper
59 100
57 16.0 7.8 11.8#





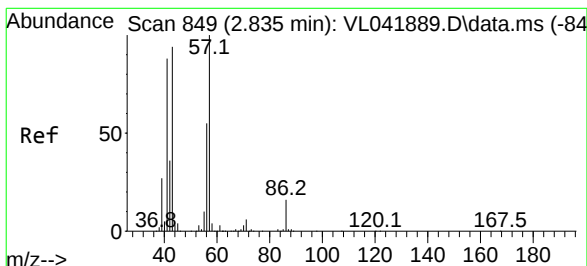
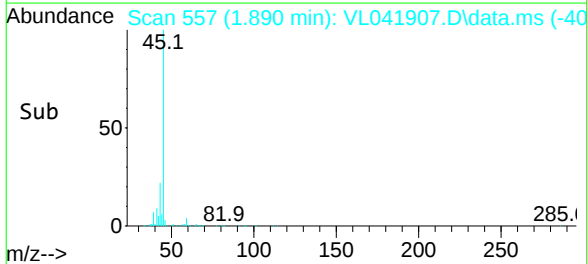
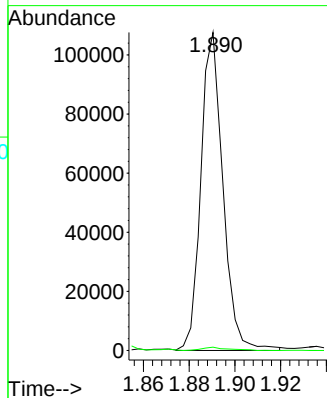
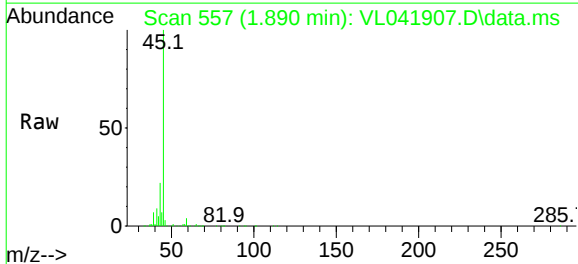
#19
Isopropyl Alcohol
Concen: 7.298 ppbv m
RT: 1.890 min Scan# 557
Delta R.T. 0.000 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 45 Resp: 72150
Ion Ratio Lower Upper
45 100
58 0.0 35.0 52.6#

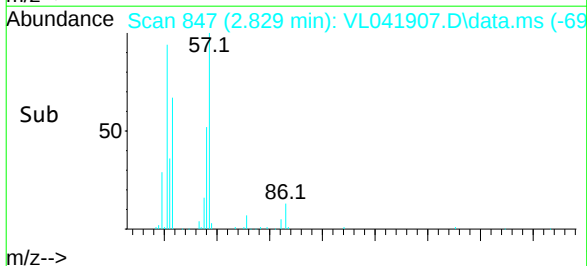
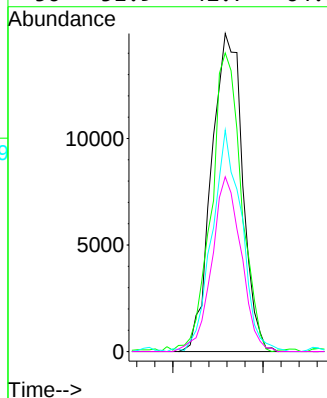
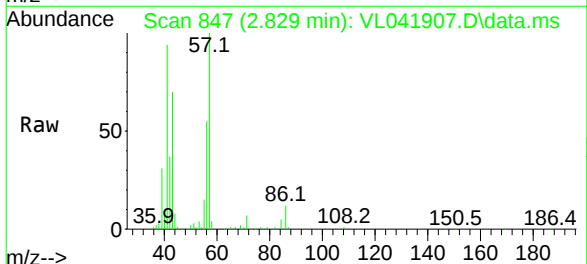
Manual Integrations
APPROVED

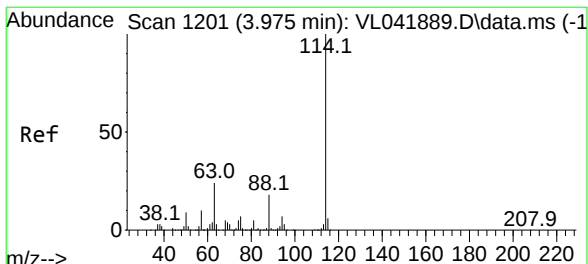
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#26
Hexane
Concen: 1.002 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.006 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

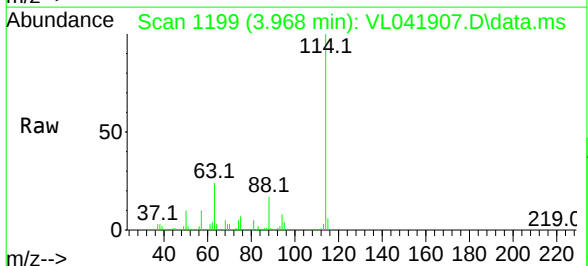
Tgt Ion: 57 Resp: 17822
Ion Ratio Lower Upper
57 100
41 92.4 73.8 110.8
43 67.1 197.3 295.9#
56 51.9 42.7 64.1





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.968 min Scan# 111
 Delta R.T. -0.006 min
 Lab File: VL041907.D
 Acq: 14 Jan 2025 23:52

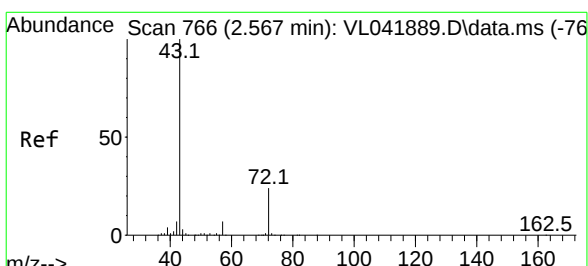
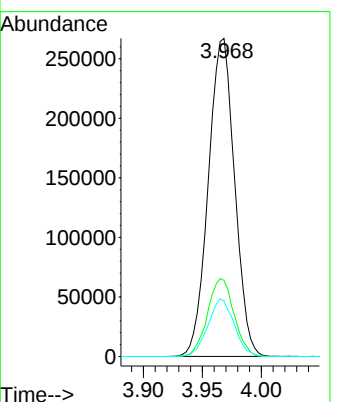
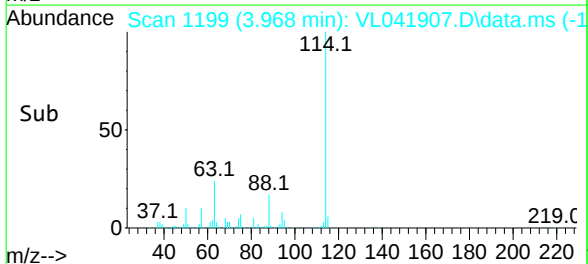
Instrument : MSVOA_L
 ClientSampleId : SV3



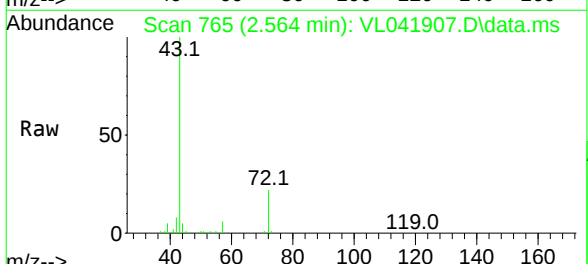
Tgt Ion: 114 Resp: 414276

Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.8	29.6
88	18.0	14.4	21.6

Manual Integrations
APPROVED
 Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

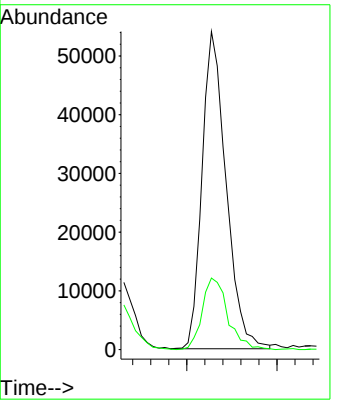
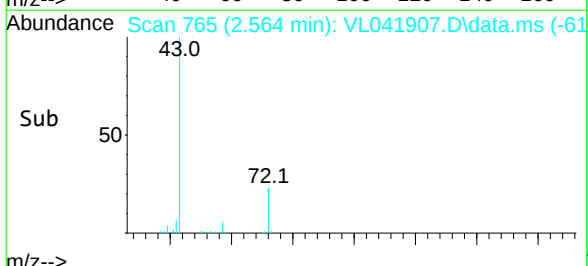


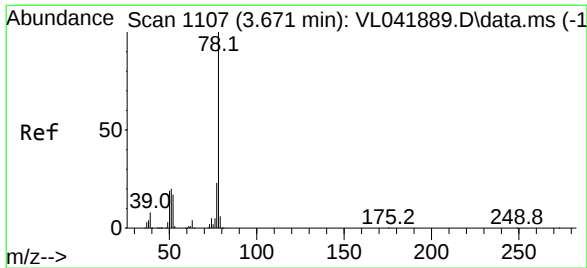
#34
 2-Butanone
 Concen: 1.901 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. -0.003 min
 Lab File: VL041907.D
 Acq: 14 Jan 2025 23:52



Tgt Ion: 43 Resp: 50071

Ion	Ratio	Lower	Upper
43	100		
72	24.3	18.6	28.0





#36

Benzene

Concen: 0.179 ppbv

RT: 3.667 min Scan# 1107

Delta R.T. -0.003 min

Lab File: VL041907.D

Acq: 14 Jan 2025 23:52

Instrument :

MSVOA_L

ClientSampleId :

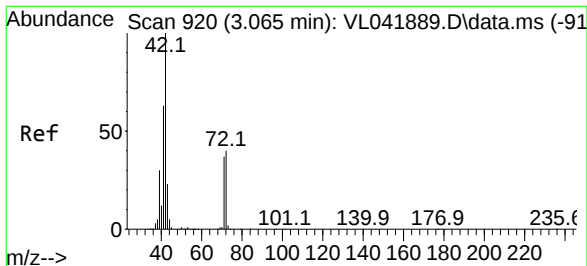
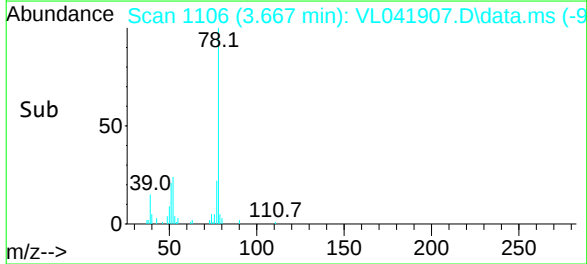
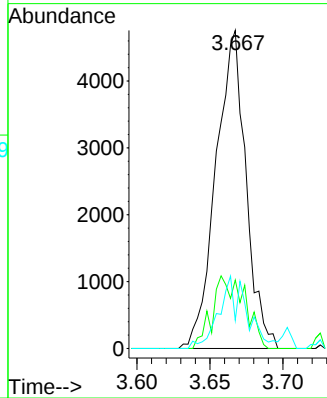
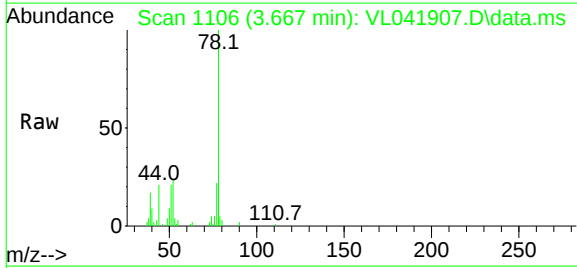
SV3

Tgt	Ion: 78	Resp:	6801
Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.1	27.1
50	8.9	15.2	22.8#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#41

Tetrahydrofuran

Concen: 0.273 ppbv m

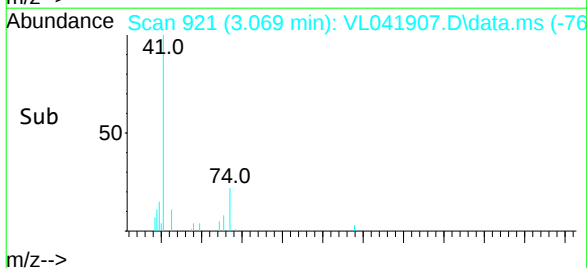
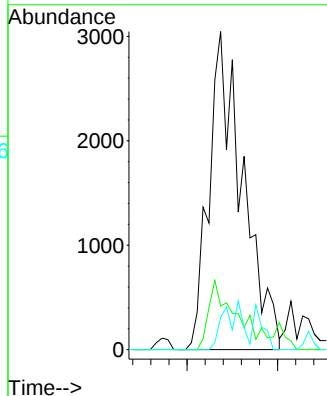
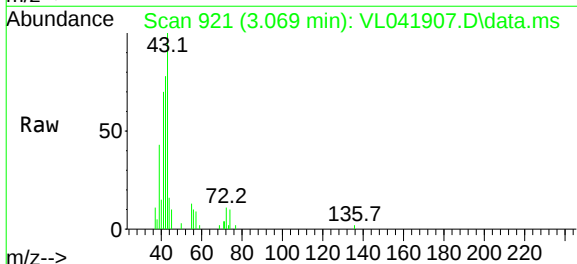
RT: 3.069 min Scan# 921

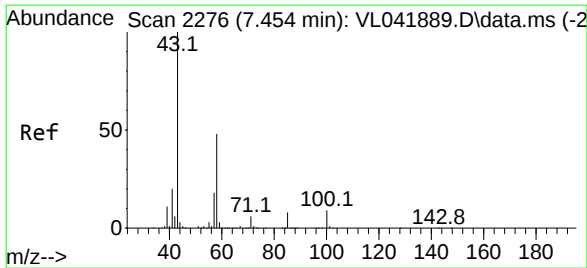
Delta R.T. 0.003 min

Lab File: VL041907.D

Acq: 14 Jan 2025 23:52

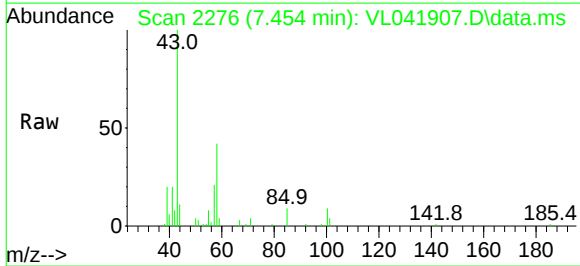
Tgt	Ion: 42	Resp:	3912
Ion	Ratio	Lower	Upper
42	100		
72	21.2	32.3	48.5#
71	14.0	29.9	44.9#





#51
2-Hexanone
Concen: 0.502 ppbv
RT: 7.454 min Scan# 2276
Delta R.T. 0.000 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

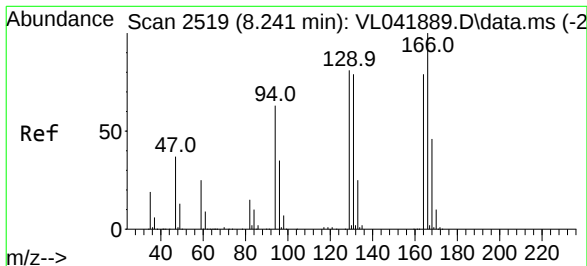
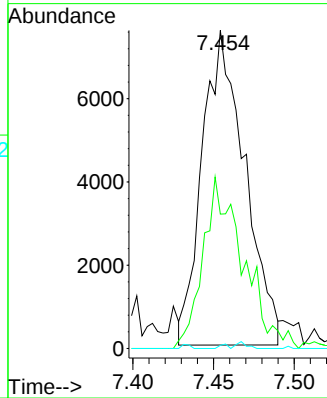
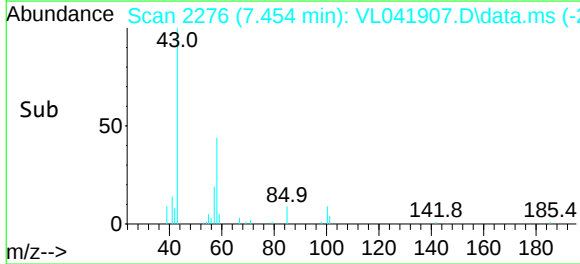
Instrument :
MSVOA_L
ClientSampleId :
SV3



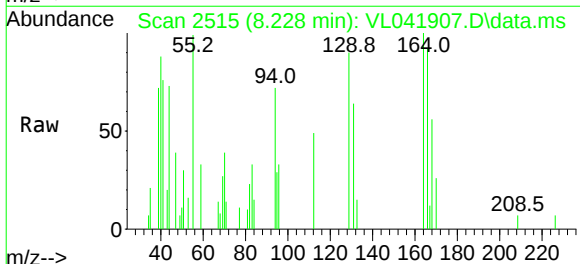
Tgt Ion: 43 Resp: 13871
Ion Ratio Lower Upper
43 100
58 52.1 40.4 60.6
98 0.8 0.2 0.2#

Manual Integrations
APPROVED

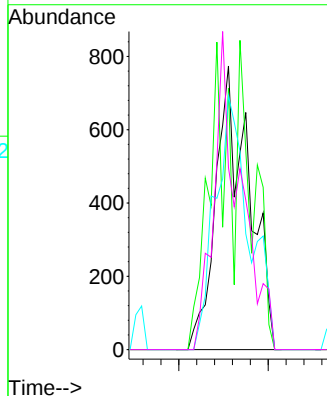
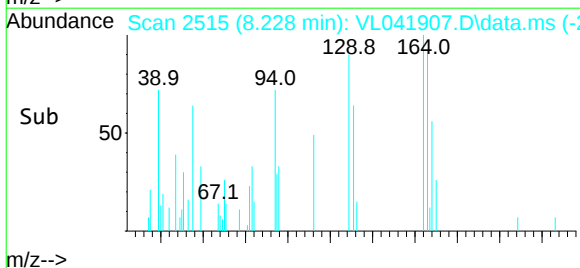
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

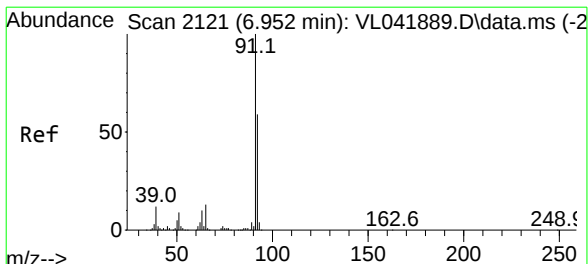


#52
Tetrachloroethene
Concen: 0.076 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. -0.013 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52



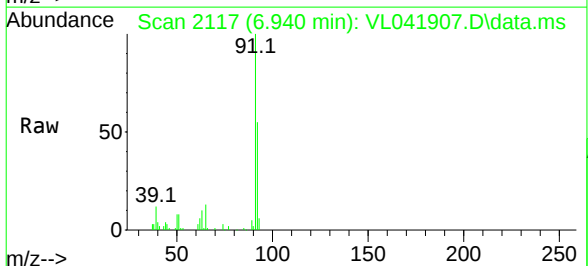
Tgt Ion:164 Resp: 999
Ion Ratio Lower Upper
164 100
166 92.2 100.8 151.2#
129 89.5 82.0 123.0
131 64.2 80.2 120.2#





#53
Toluene
Concen: 0.746 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. -0.013 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

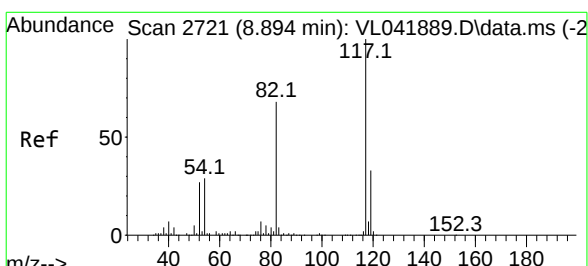
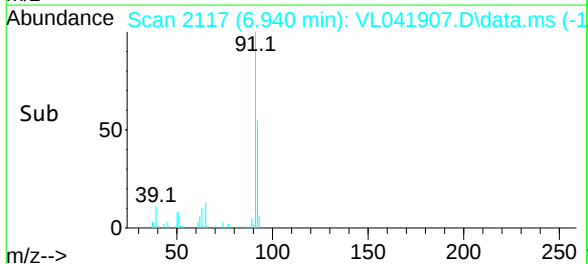
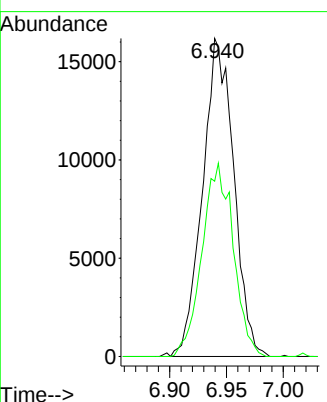
Instrument : MSVOA_L
ClientSampleId : SV3



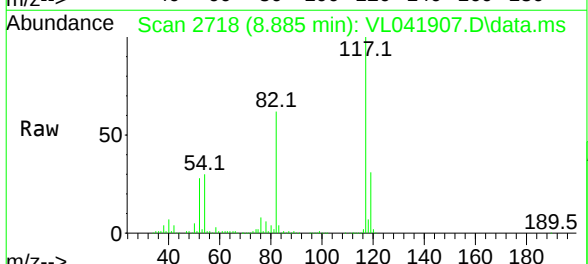
Tgt Ion: 91 Resp: 30861

Ion	Ratio	Lower	Upper
91	100		
92	61.0	47.4	71.0

Manual Integrations
APPROVED
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

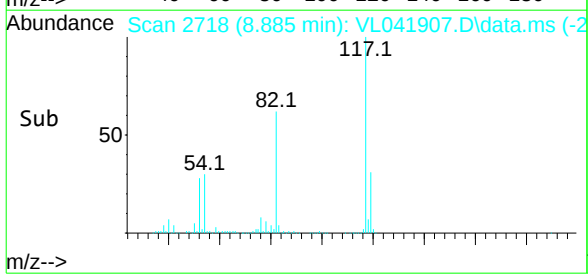
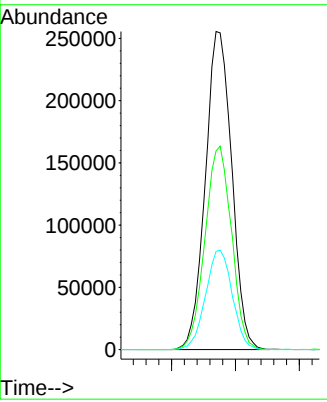


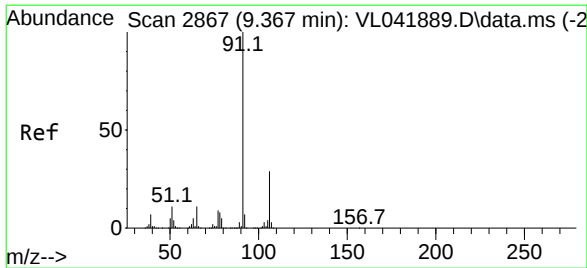
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.010 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52



Tgt Ion: 117 Resp: 367457

Ion	Ratio	Lower	Upper
117	100		
82	64.3	54.2	81.4
119	31.6	25.0	37.6





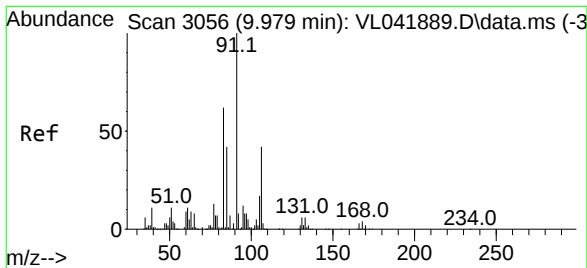
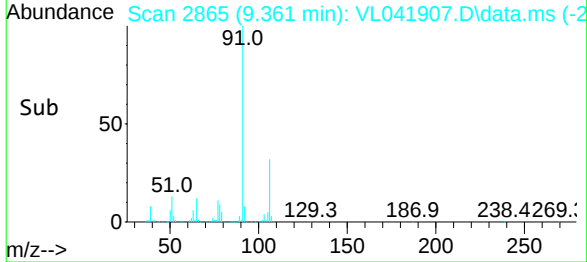
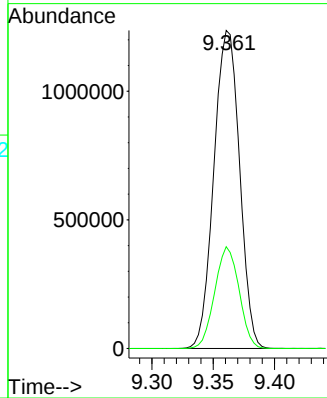
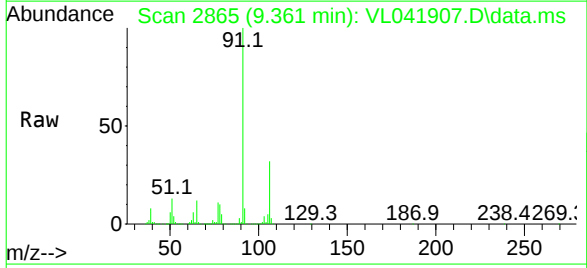
#58
Ethyl Benzene
Concen: 31.347 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. -0.006 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 91 Resp: 1800165
Ion Ratio Lower Upper
91 100
106 32.0 23.1 34.7

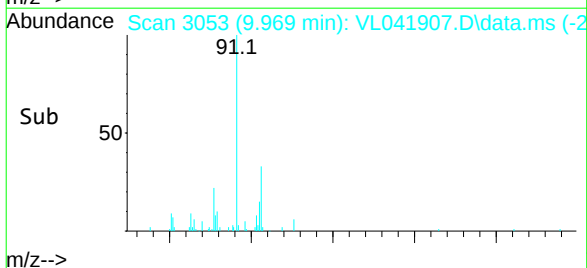
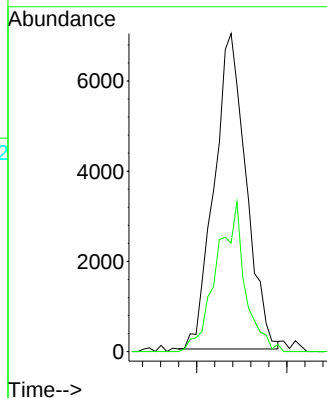
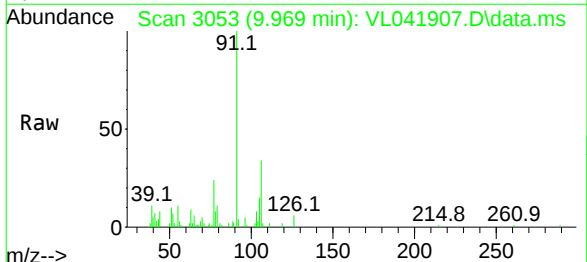
Manual Integrations
APPROVED

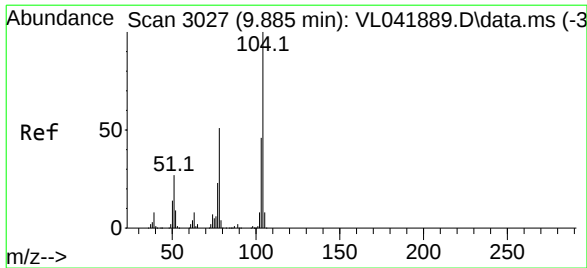
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#60
o-Xylene
Concen: 0.188 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.010 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

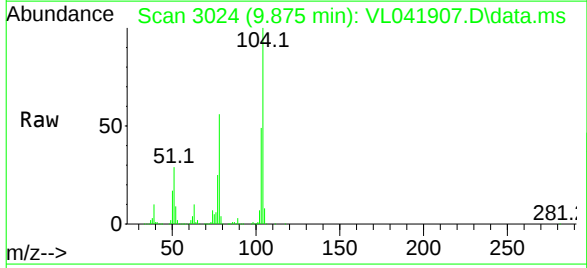
Tgt Ion: 91 Resp: 8606
Ion Ratio Lower Upper
91 100
106 42.4 21.3 63.9





#61
Styrene
Concen: 14.628 ppbv
RT: 9.875 min Scan# 3027
Delta R.T. -0.010 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

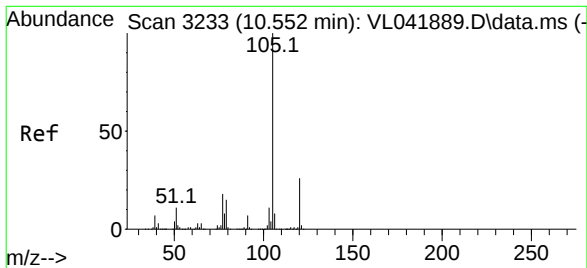
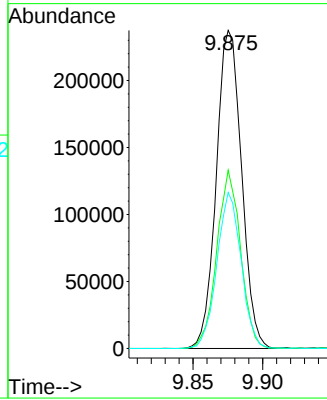
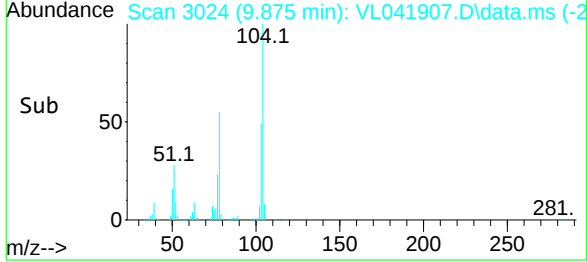
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:104 Resp: 299816
Ion Ratio Lower Upper
104 100
78 52.7 41.0 61.6
103 47.2 37.2 55.8

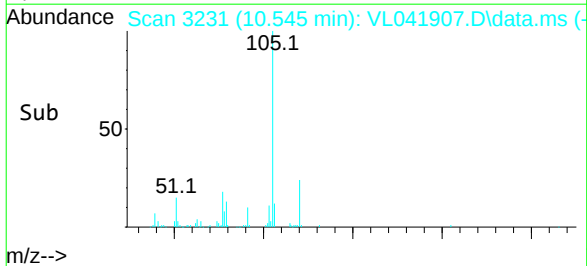
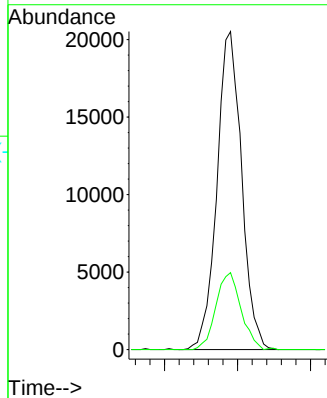
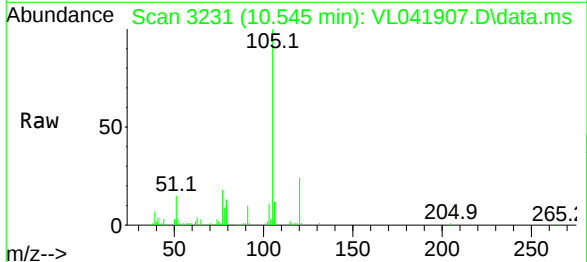
Manual Integrations
APPROVED

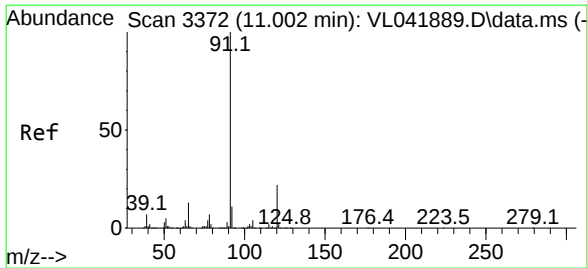
Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



#62
Isopropylbenzene
Concen: 0.340 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. -0.006 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Tgt Ion:105 Resp: 24044
Ion Ratio Lower Upper
105 100
120 24.7 20.3 30.5





#64

n-propylbenzene

Concen: 0.102 ppbv

RT: 10.992 min Scan# 3372

Delta R.T. -0.010 min

Lab File: VL041907.D

Acq: 14 Jan 2025 23:52

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion: 120 Resp: 1829

Ion Ratio Lower Upper

120 100

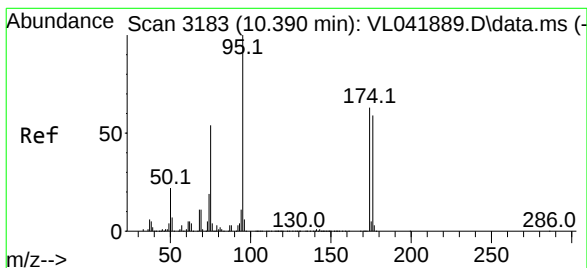
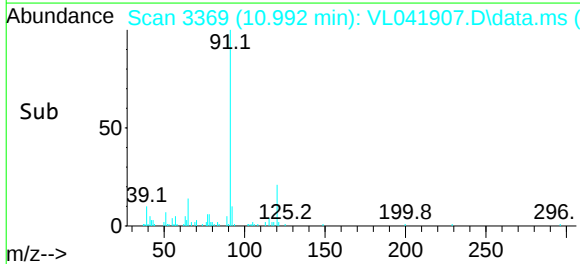
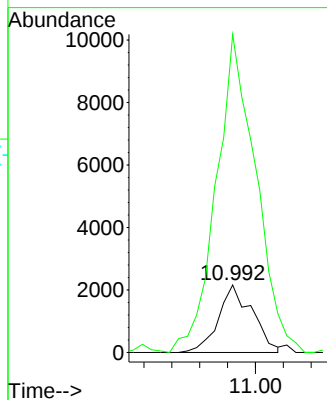
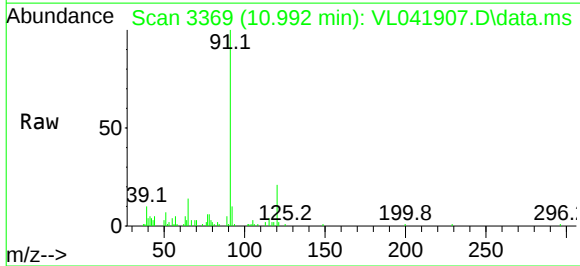
91 558.8 374.1 561.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025

Supervised By :Mahesh Dadoda 01/15/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.978 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. -0.010 min

Lab File: VL041907.D

Acq: 14 Jan 2025 23:52

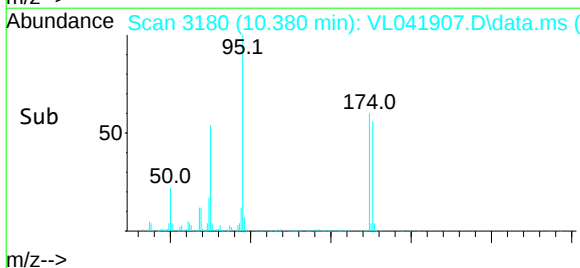
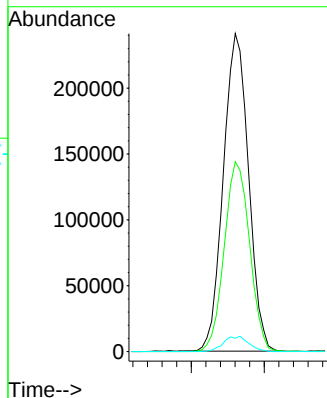
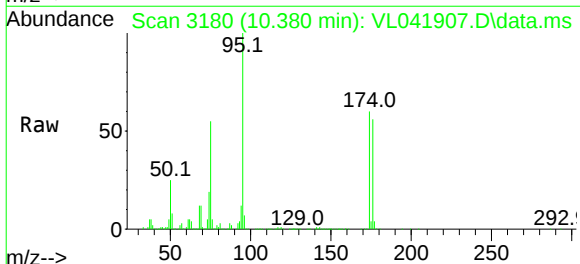
Tgt Ion: 95 Resp: 288793

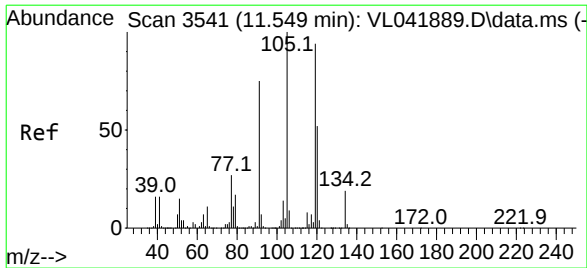
Ion Ratio Lower Upper

95 100

174 60.5 49.0 73.4

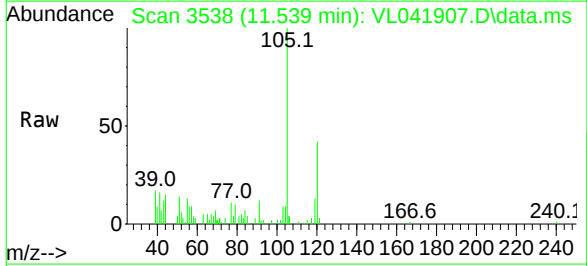
175 4.9 3.8 5.8





#74
1,2,4-Trimethylbenzene
Concen: 0.126 ppbv
RT: 11.539 min Scan# 35
Delta R.T. -0.010 min
Lab File: VL041907.D
Acq: 14 Jan 2025 23:52

Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt	Ion	105	Resp	6607
Ion	Ratio	Lower	Upper	
105	100			
120	42.0	41.4	62.2	
91	12.3	60.2	90.2	#
77	10.0	22.0	33.0	#

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

