

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041941.D
 Acq On : 21 Jan 2025 11:34
 Operator : SY/MD
 Sample : Q1090-04DL 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/21/2025
 Supervised By :Semsettin Yesilyurt 01/21/2025

Quant Time: Jan 21 12:01:36 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		2.774	49	143033	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene		3.939	114	385641	10.000	ppbv	-0.04
55) Chlorobenzene-d5		8.862	117	326035	10.000	ppbv	-0.03
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.361	95	259826	10.118	ppbv	-0.03
Spiked Amount		10.000	Range	65 - 135	Recovery	= 101.200%	
Target Compounds							Qvalue
2) Dichlorodifluoromethane		1.492	85	4878	0.250	ppbv	97
3) Chlorodifluoromethane		1.470	51	3620m	0.177	ppbv	
4) Chloromethane		1.528	50	2050	0.280	ppbv	92
9) Propene		1.479	41	4731m	0.563	ppbv	
10) Heptane		4.962	43	7878m	0.351	ppbv	
11) Trichlorofluoromethane		1.868	101	2129	0.105	ppbv #	83
13) Ethanol		1.712	45	48061	78.040	ppbv	86
15) Acetone		1.826	43	1767444	102.882	ppbv #	77
19) Isopropyl Alcohol		1.881	45	11175m	1.097	ppbv	
20) Methylene Chloride		2.052	84	4181	0.616	ppbv #	72
26) Hexane		2.813	57	136834	7.468	ppbv #	36
30) Cyclohexane		3.842	84	1718m	0.108	ppbv	
34) 2-Butanone		2.551	43	43851	1.788	ppbv	100
36) Benzene		3.638	78	11677	0.330	ppbv #	94
44) 2,2,4-Trimethylpentane		4.616	57	9713m	0.170	ppbv	
53) Toluene		6.907	91	225320	5.848	ppbv	99
58) Ethyl Benzene		9.338	91	10995	0.216	ppbv	95
59) m/p-Xylene		9.513	91	32632m	0.799	ppbv	
60) o-Xylene		9.946	91	10350	0.255	ppbv	100
74) 1,2,4-Trimethylbenzene		11.523	105	5945	0.128	ppbv #	51

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

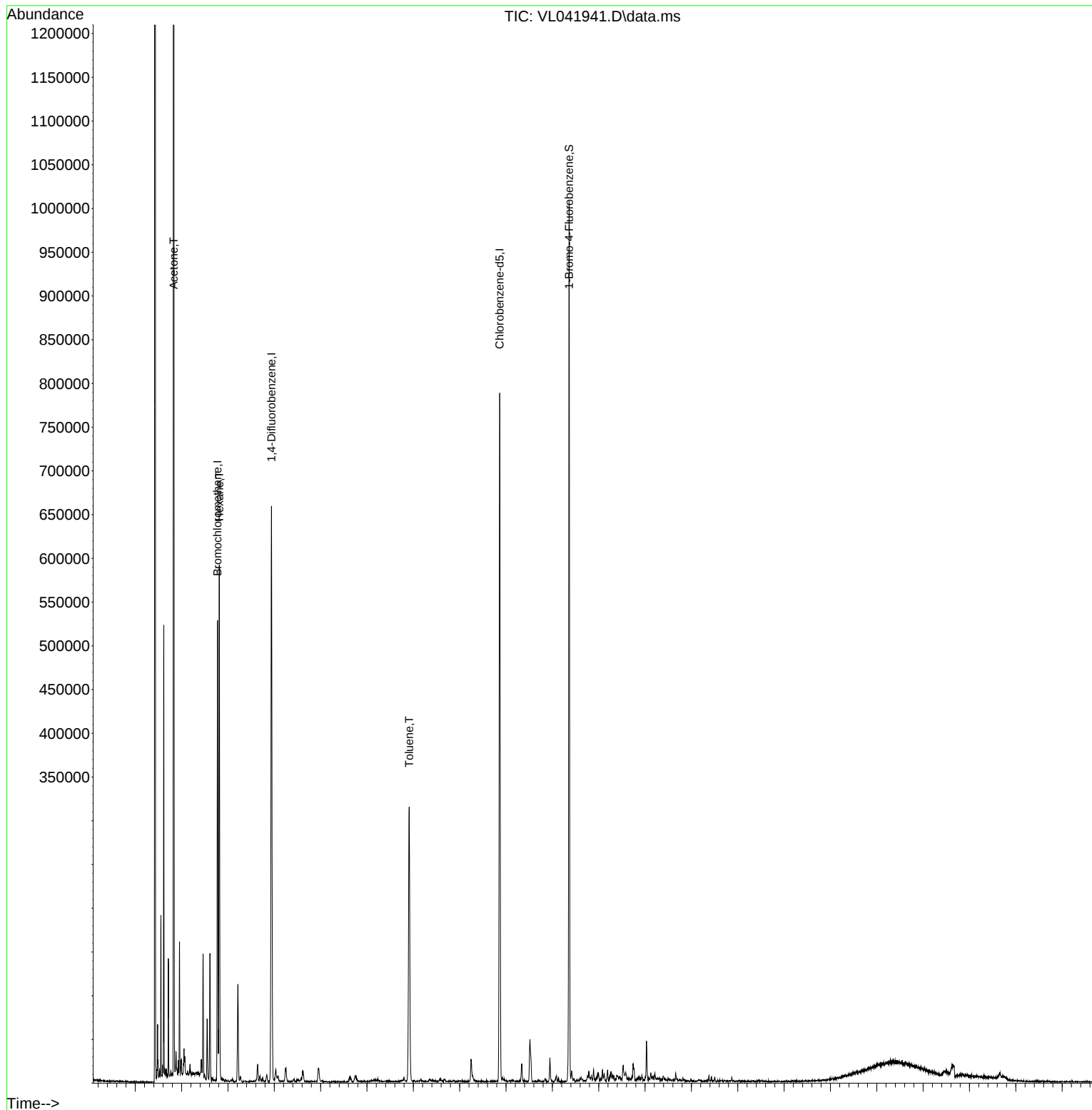
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041941.D
Acq On : 21 Jan 2025 11:34
Operator : SY/MD
Sample : Q1090-04DL 2X
Misc : 400mL/MSVOA_L
ALS Vial : 13 Sample Multiplier: 1

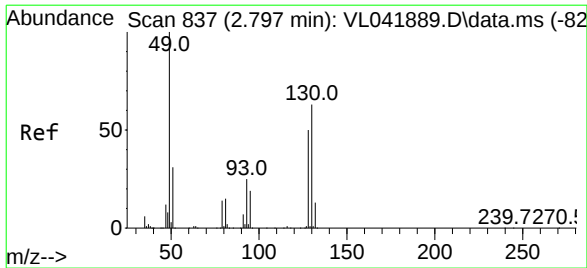
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025

Quant Time: Jan 21 12:01:36 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





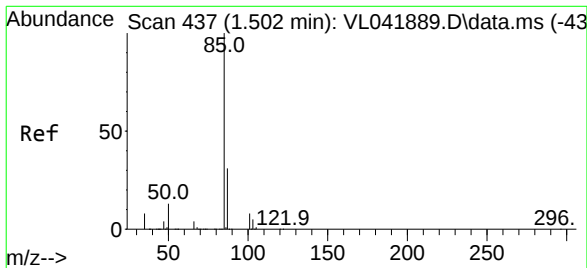
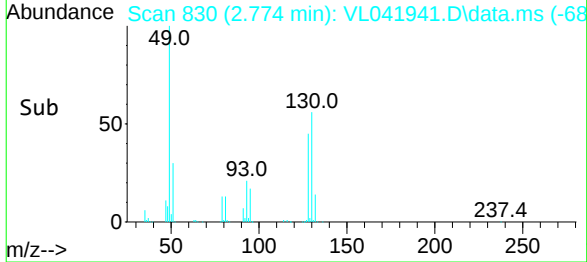
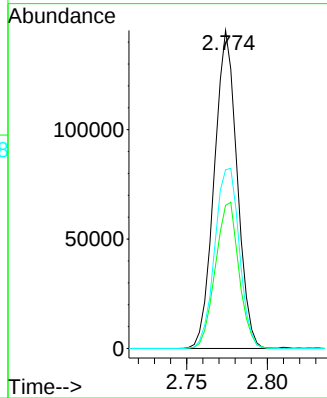
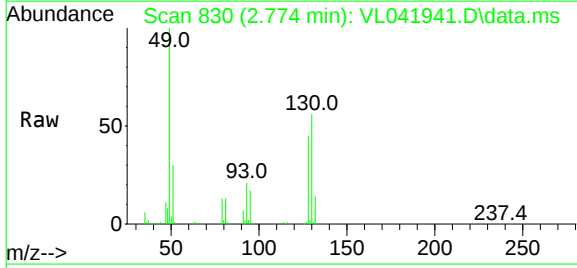
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 837
Delta R.T. -0.023 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tgt Ion: 49 Resp: 143033
Ion Ratio Lower Upper
49 100
128 47.4 24.3 73.0
130 60.9 31.1 93.2

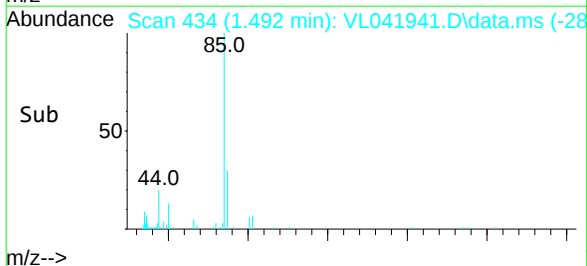
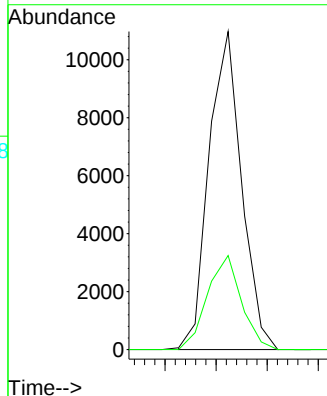
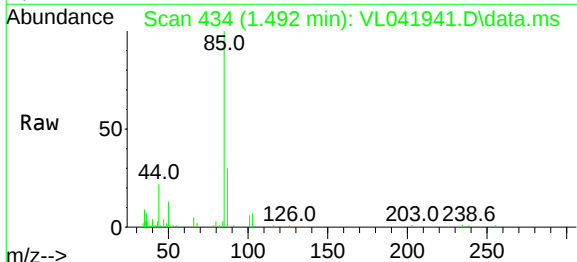
Manual Integrations
APPROVED

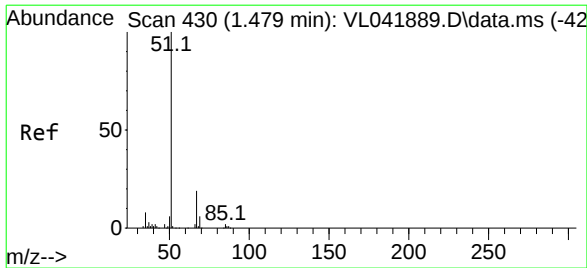
Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025



#2
Dichlorodifluoromethane
Concen: 0.250 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.010 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

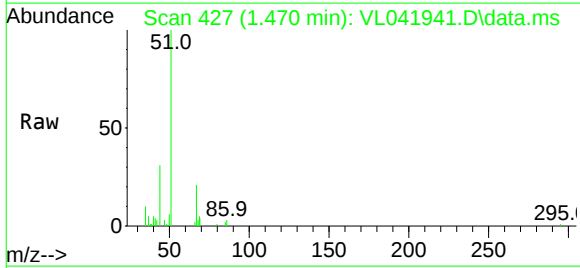
Tgt Ion: 85 Resp: 4878
Ion Ratio Lower Upper
85 100
87 29.6 24.9 37.3





#3
Chlorodifluoromethane
Concen: 0.177 ppbv m
RT: 1.470 min Scan# 42
Delta R.T. -0.010 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

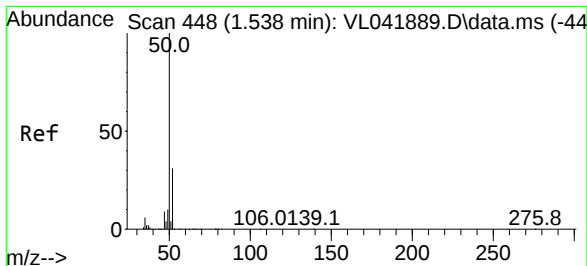
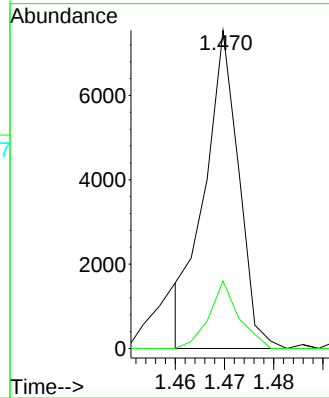
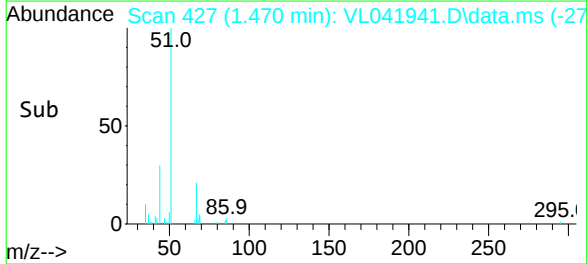
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion: 51 Resp: 3620
Ion Ratio Lower Upper
51 100
67 19.4 15.0 22.4

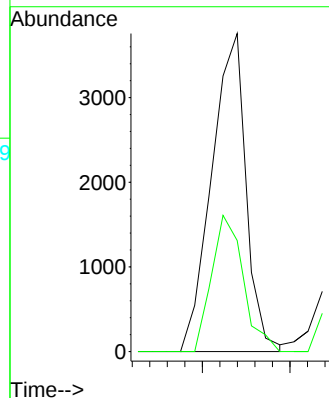
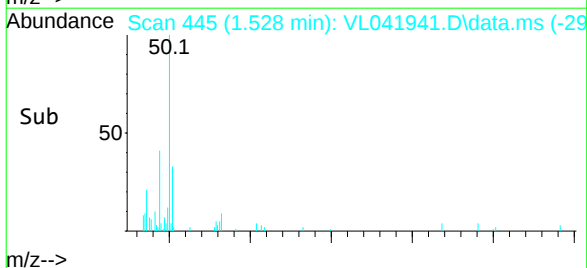
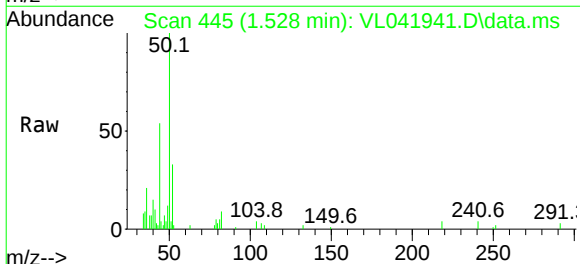
Manual Integrations
APPROVED

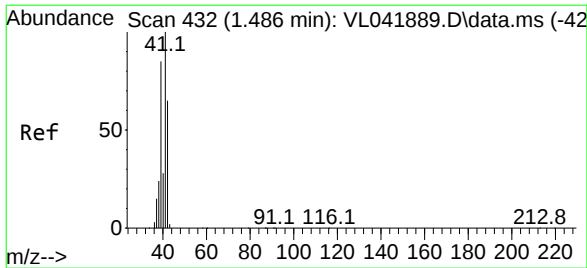
Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025



#4
Chloromethane
Concen: 0.280 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.010 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

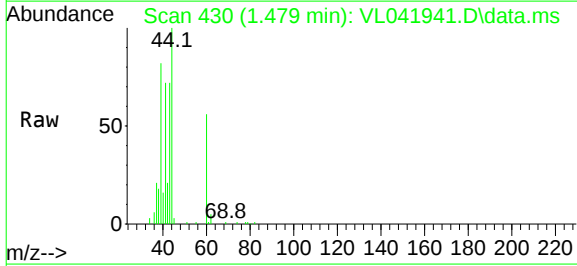
Tgt Ion: 50 Resp: 2050
Ion Ratio Lower Upper
50 100
52 34.9 24.6 36.8





#9
Propene
Concen: 0.563 ppbv m
RT: 1.479 min Scan# 431
Delta R.T. -0.006 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

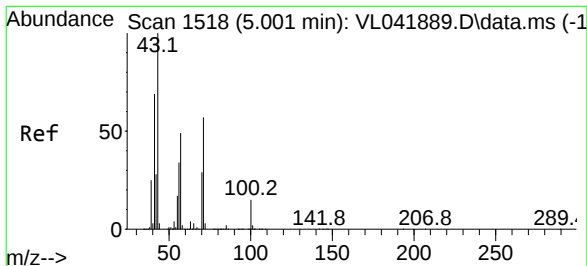
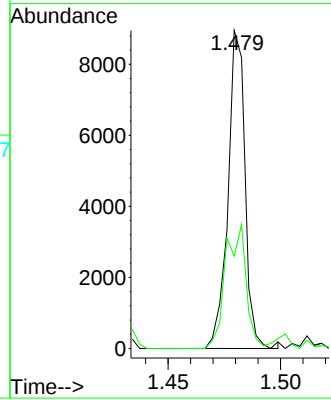
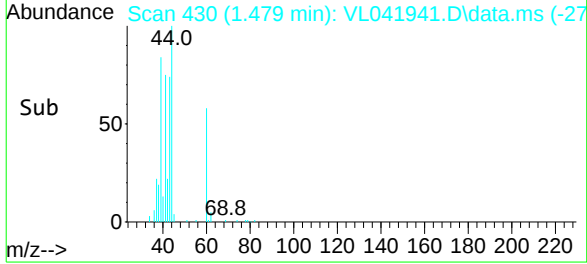
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



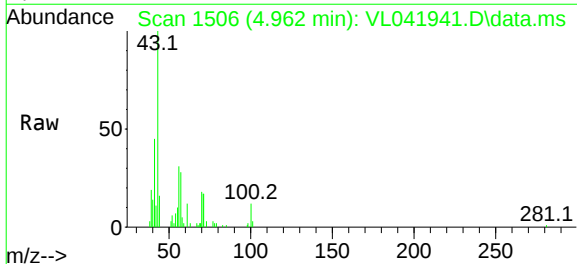
Tgt Ion: 41 Resp: 4731
Ion Ratio Lower Upper
41 100
42 299.8 52.0 78.0#

Manual Integrations
APPROVED

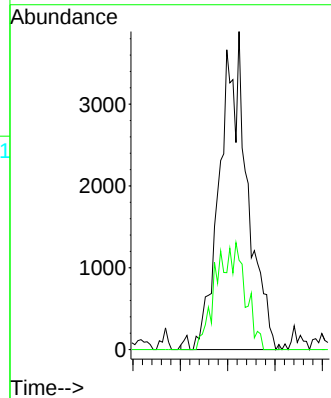
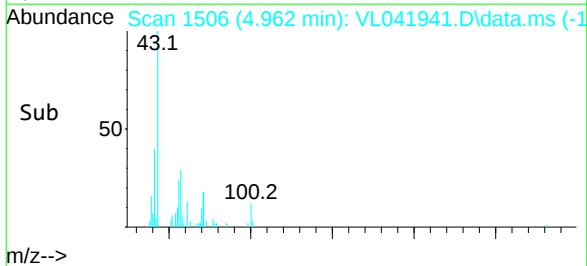
Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025

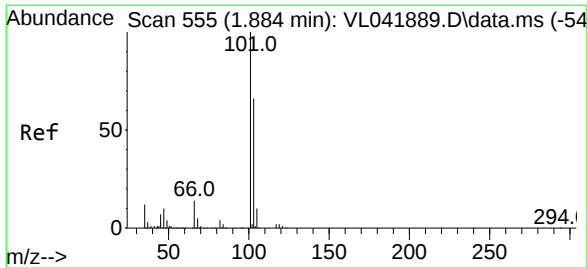


#10
Heptane
Concen: 0.351 ppbv m
RT: 4.962 min Scan# 1506
Delta R.T. -0.039 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34



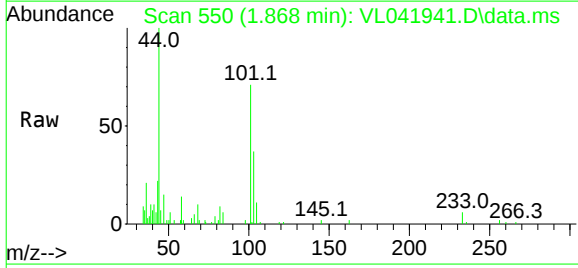
Tgt Ion: 43 Resp: 7878
Ion Ratio Lower Upper
43 100
57 35.4 41.0 61.4#





#11
Trichlorofluoromethane
Concen: 0.105 ppbv
RT: 1.868 min Scan# 555
Delta R.T. -0.016 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

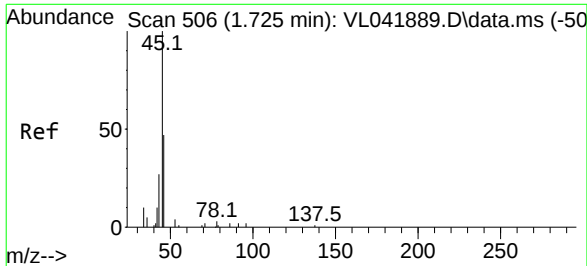
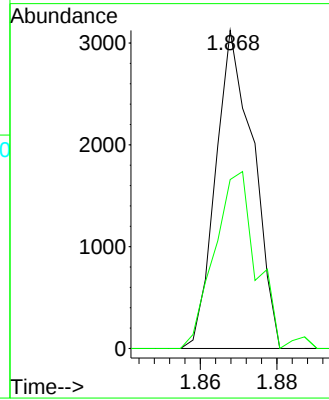
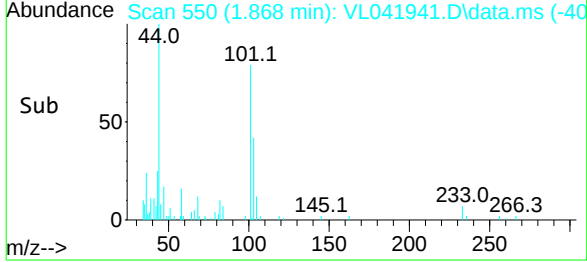
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



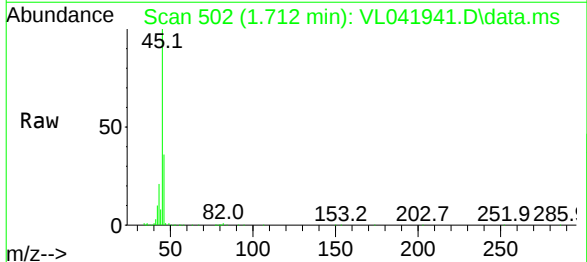
Tgt Ion:101 Resp: 2129
Ion Ratio Lower Upper
101 100
103 53.1 53.1 79.7#

Manual Integrations
APPROVED

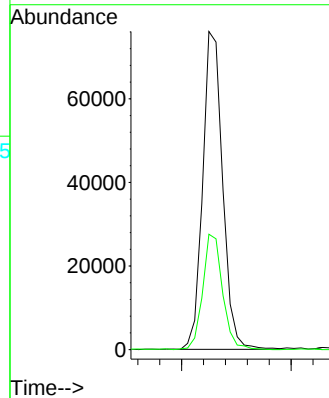
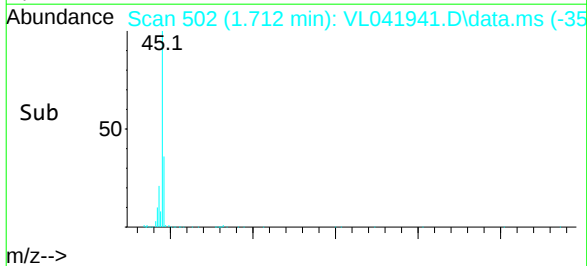
Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025

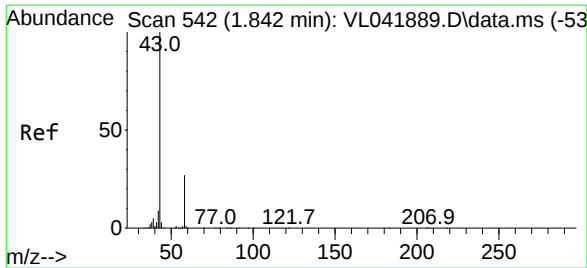


#13
Ethanol
Concen: 78.040 ppbv
RT: 1.712 min Scan# 502
Delta R.T. -0.013 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34



Tgt Ion: 45 Resp: 48061
Ion Ratio Lower Upper
45 100
46 36.4 18.1 72.5





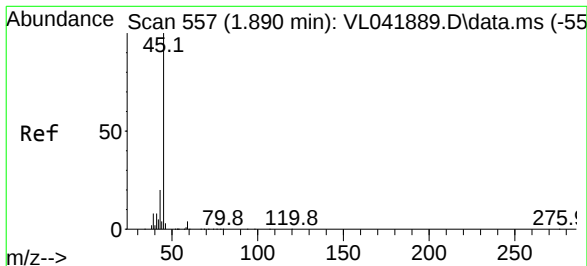
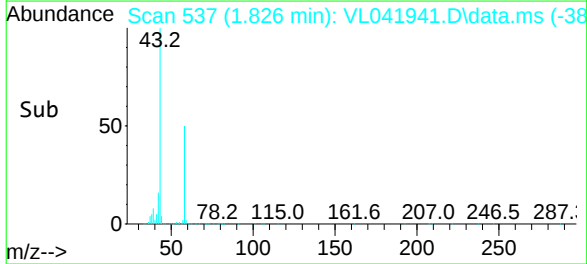
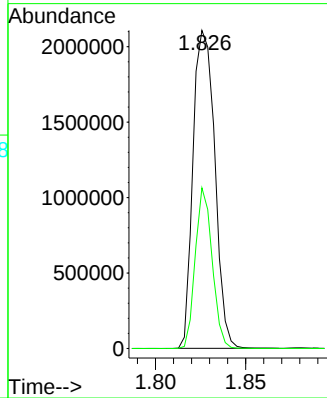
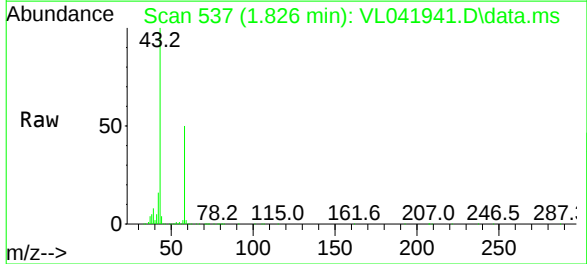
#15
Acetone
Concen: 102.882 ppbv
RT: 1.826 min Scan# 531
Delta R.T. -0.016 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tgt Ion: 43 Resp: 1767444
Ion Ratio Lower Upper
43 100
58 39.3 21.9 32.9#

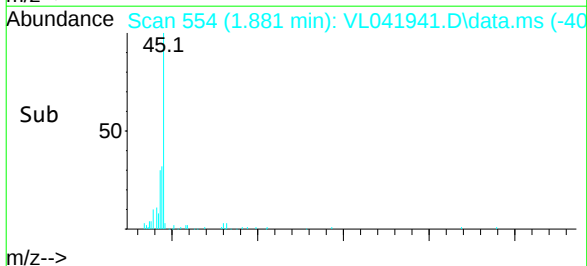
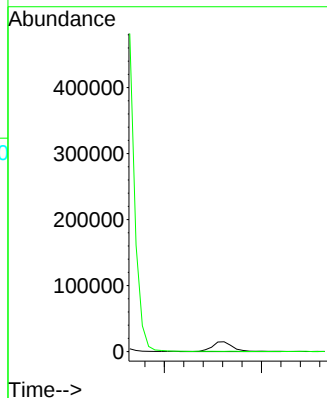
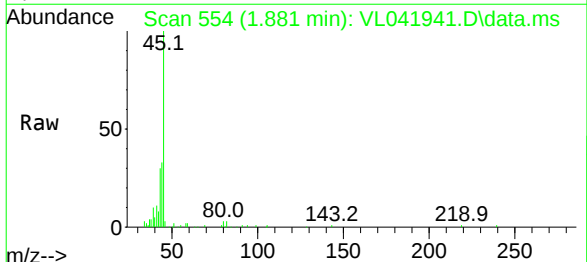
Manual Integrations
APPROVED

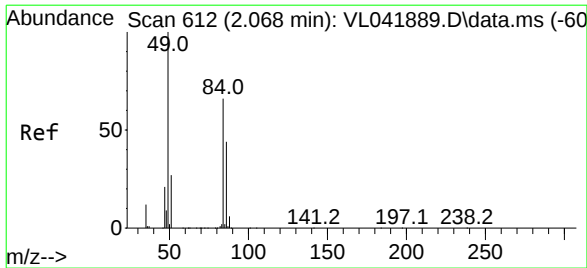
Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025



#19
Isopropyl Alcohol
Concen: 1.097 ppbv m
RT: 1.881 min Scan# 554
Delta R.T. -0.010 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

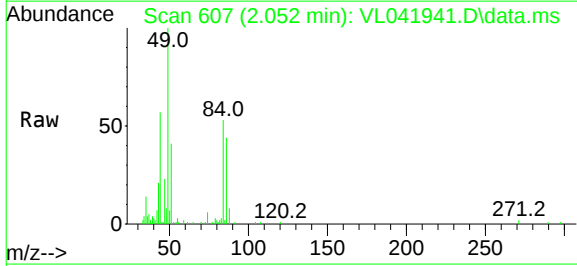
Tgt Ion: 45 Resp: 11175
Ion Ratio Lower Upper
45 100
58 0.0 35.0 52.6#





#20
Methylene Chloride
Concen: 0.616 ppbv
RT: 2.052 min Scan# 607
Delta R.T. -0.016 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

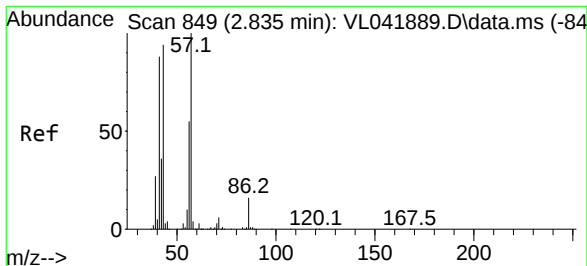
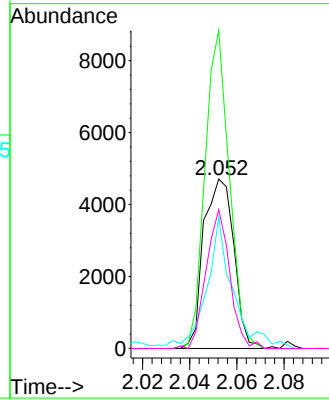
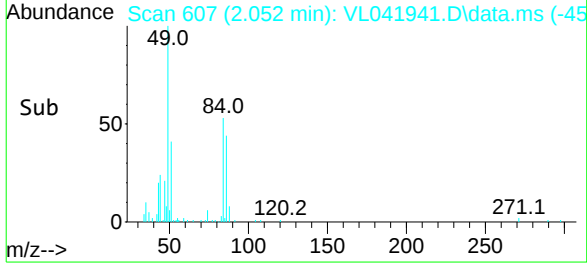
Instrument : MSVOA_L
ClientSampleId : IA2DL



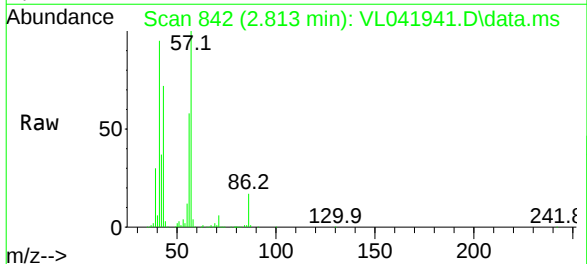
Tgt Ion	Ratio	Lower	Upper
84	100		
49	187.7	123.1	184.7#
51	74.7	35.8	53.8#
86	82.0	53.7	80.5#

Manual Integrations
APPROVED

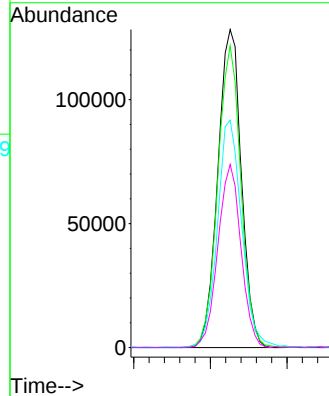
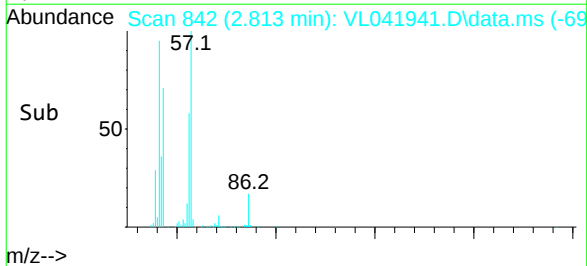
Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025

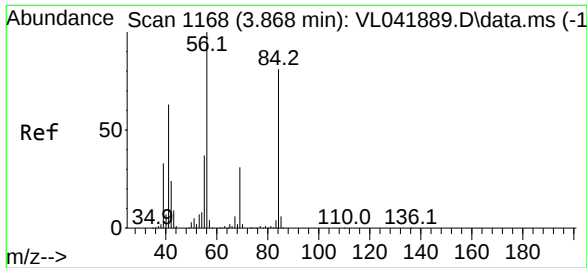


#26
Hexane
Concen: 7.468 ppbv
RT: 2.813 min Scan# 842
Delta R.T. -0.023 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34



Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.6	73.8	110.8
43	74.0	197.3	295.9#
56	56.7	42.7	64.1





#30

Cyclohexane

Concen: 0.108 ppbv m

RT: 3.842 min Scan# 1168

Delta R.T. -0.026 min

Lab File: VL041941.D

Acq: 21 Jan 2025 11:34

Instrument :

MSVOA_L

ClientSampleId :

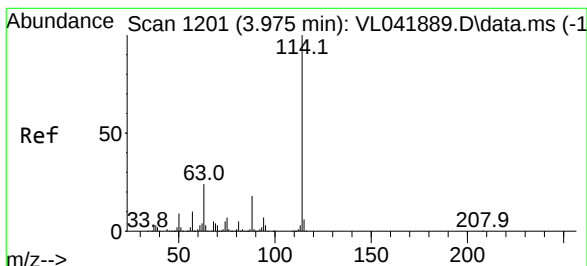
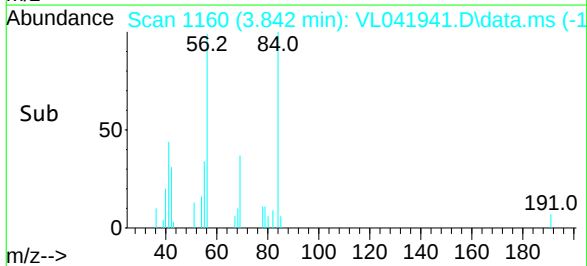
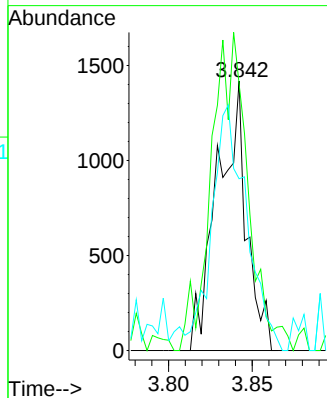
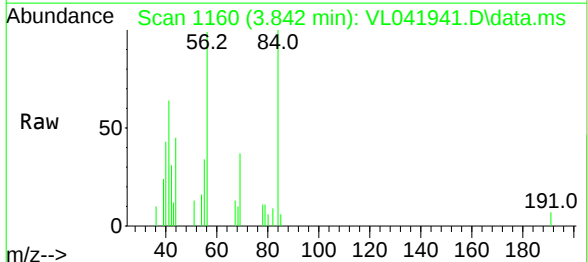
IA2DL

Tgt Ion:	84	Resp:	1718
Ion	Ratio	Lower	Upper
84	100		
56	151.4	99.3	148.9
41	131.0	64.3	96.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

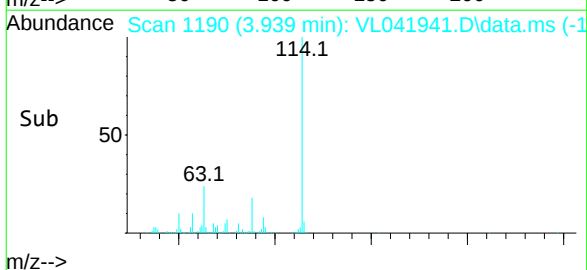
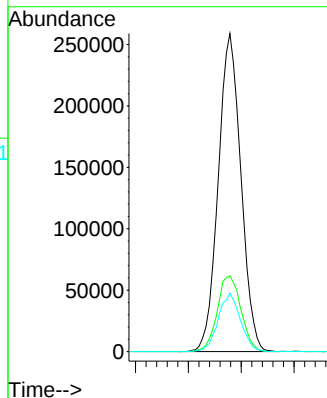
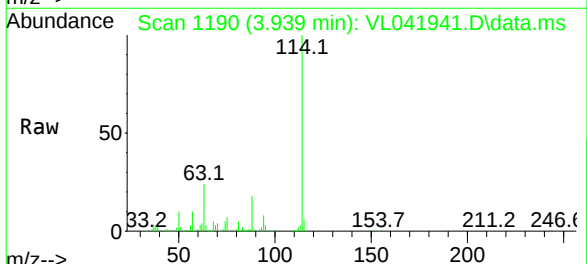
RT: 3.939 min Scan# 1190

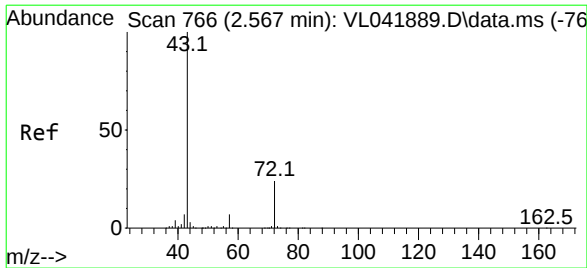
Delta R.T. -0.036 min

Lab File: VL041941.D

Acq: 21 Jan 2025 11:34

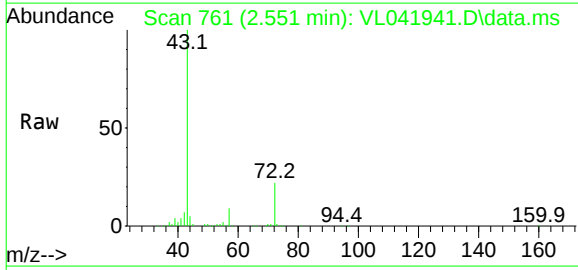
Tgt Ion:	114	Resp:	385641
Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.8	29.6
88	18.0	14.4	21.6





#34
2-Butanone
Concen: 1.788 ppbv
RT: 2.551 min Scan# 766
Delta R.T. -0.016 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

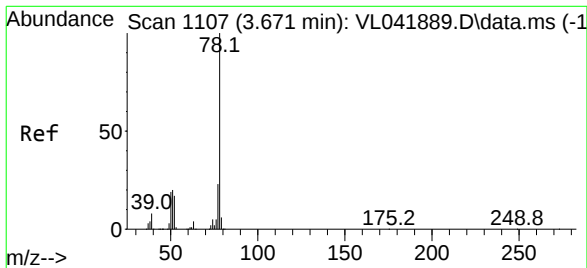
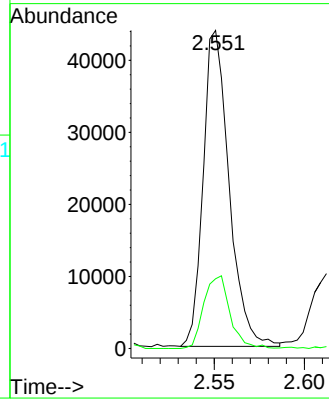
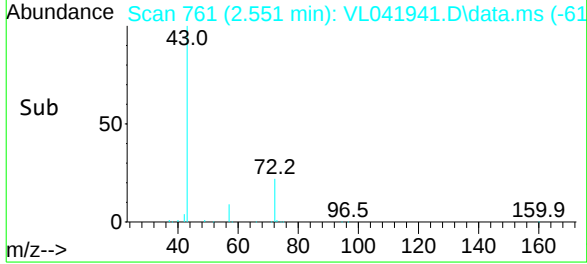
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



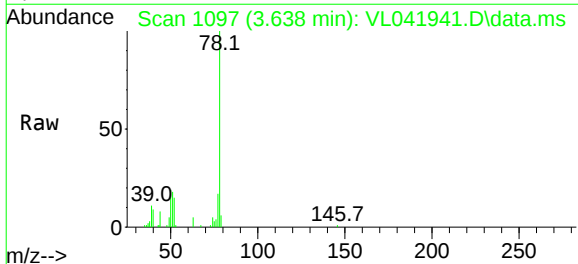
Tgt Ion: 43 Resp: 43851
Ion Ratio Lower Upper
43 100
72 23.4 18.6 28.0

Manual Integrations
APPROVED

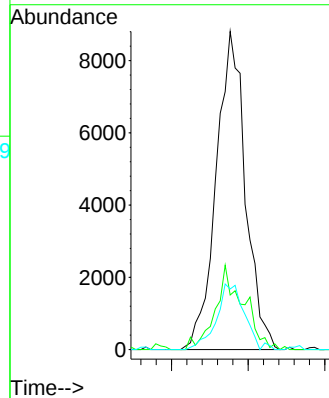
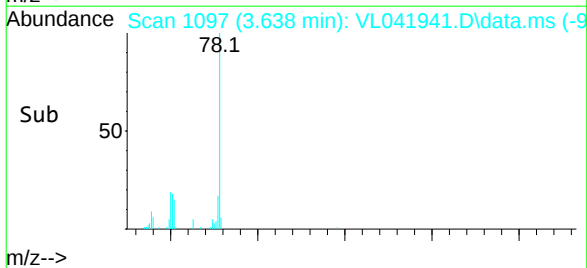
Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025

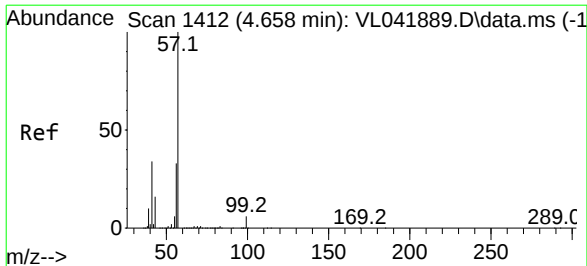


#36
Benzene
Concen: 0.330 ppbv
RT: 3.638 min Scan# 1097
Delta R.T. -0.032 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34



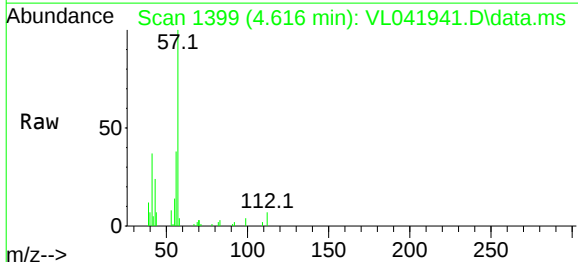
Tgt Ion: 78 Resp: 11677
Ion Ratio Lower Upper
78 100
77 17.2 18.1 27.1#
50 19.1 15.2 22.8





#44
2,2,4-Trimethylpentane
Concen: 0.170 ppbv m
RT: 4.616 min Scan# 13
Delta R.T. -0.042 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

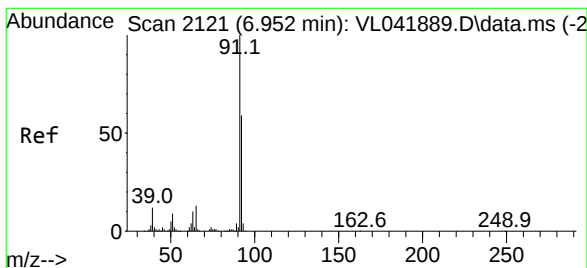
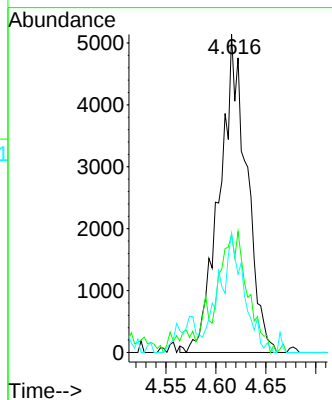
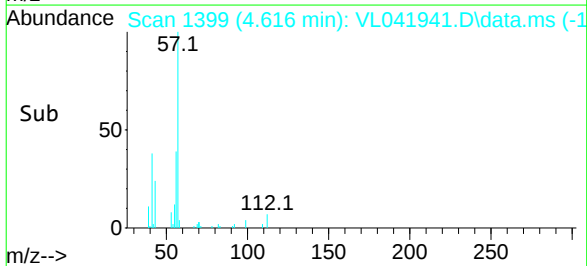
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion: 57 Resp: 9713
Ion Ratio Lower Upper
57 100
41 48.5 26.6 40.0#
56 41.9 25.4 38.2#

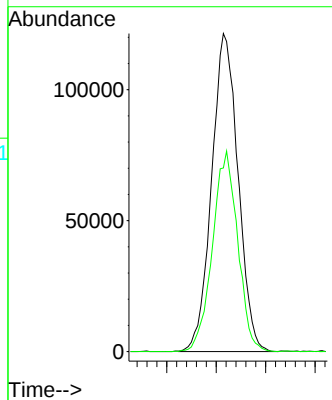
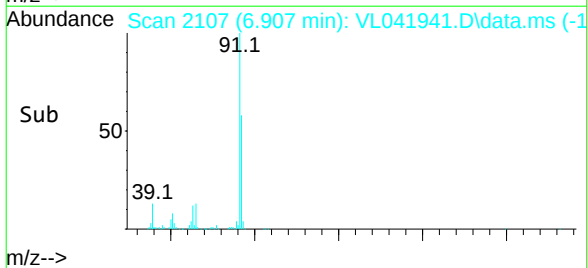
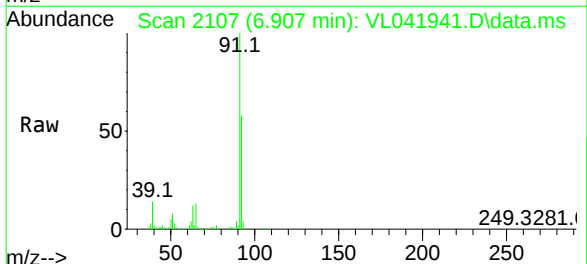
Manual Integrations
APPROVED

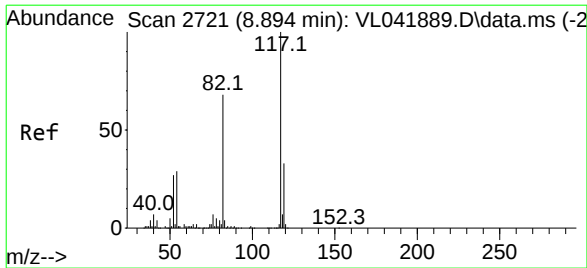
Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025



#53
Toluene
Concen: 5.848 ppbv
RT: 6.907 min Scan# 2107
Delta R.T. -0.045 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

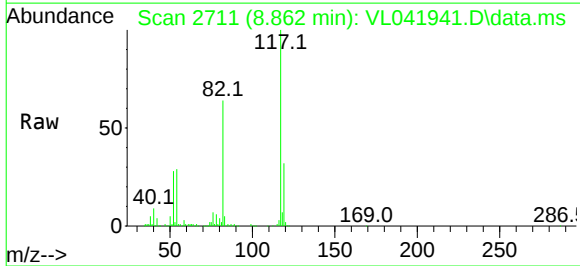
Tgt Ion: 91 Resp: 225320
Ion Ratio Lower Upper
91 100
92 60.2 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.862 min Scan# 2711
Delta R.T. -0.032 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

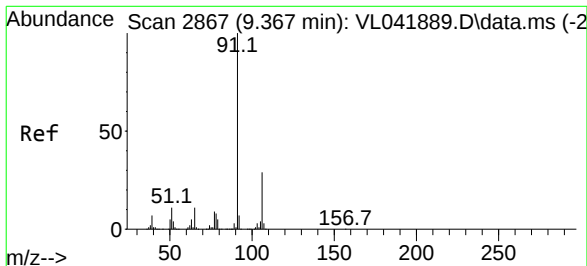
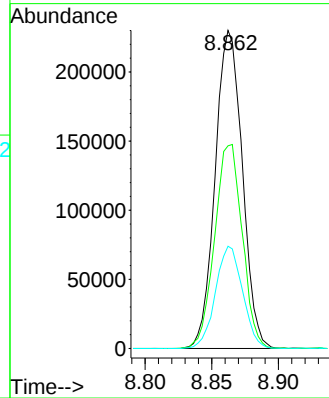
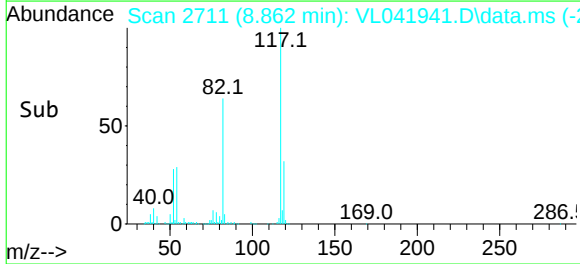
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



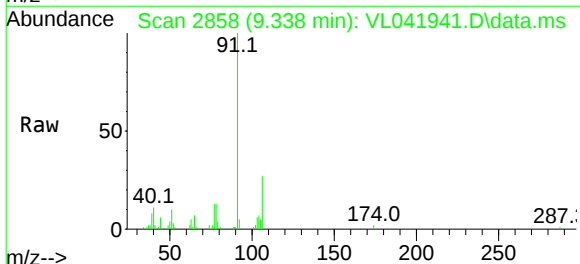
Tgt Ion: 117 Resp: 326035
Ion Ratio Lower Upper
117 100
82 65.3 54.2 81.4
119 32.1 25.0 37.6

Manual Integrations
APPROVED

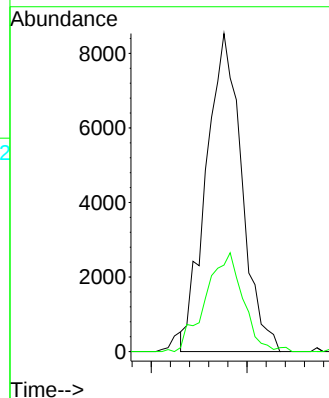
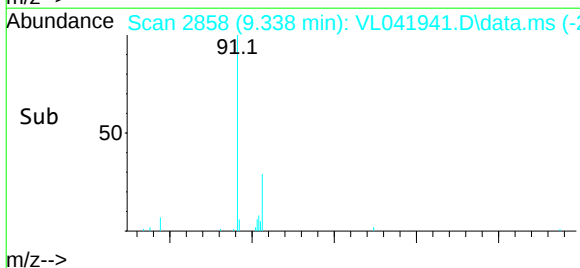
Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025

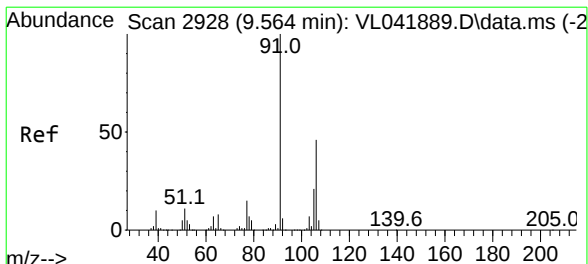


#58
Ethyl Benzene
Concen: 0.216 ppbv
RT: 9.338 min Scan# 2858
Delta R.T. -0.029 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34



Tgt Ion: 91 Resp: 10995
Ion Ratio Lower Upper
91 100
106 26.0 23.1 34.7





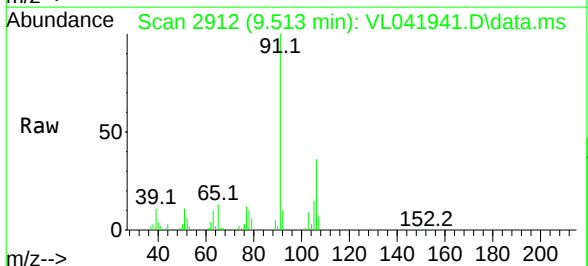
#59
m/p-Xylene
Concen: 0.799 ppbv m
RT: 9.513 min Scan# 2912
Delta R.T. -0.052 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

Instrument :

MSVOA_L

ClientSampleId :

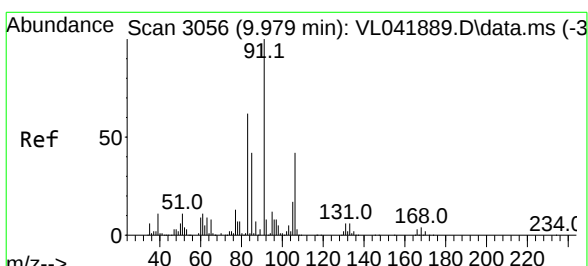
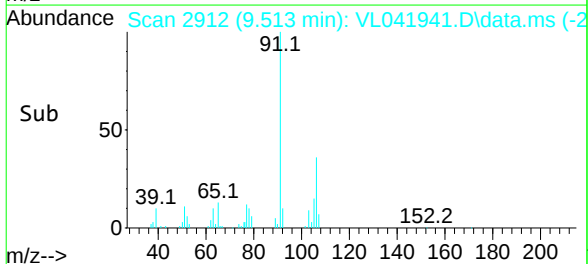
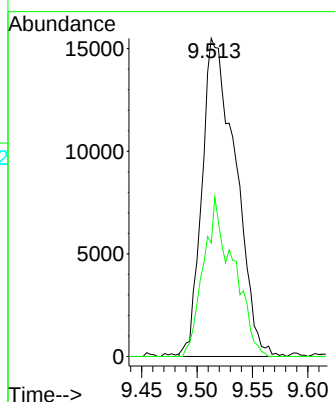
IA2DL



Tgt Ion: 91 Resp: 32632
Ion Ratio Lower Upper
91 100
106 44.8 36.0 54.0

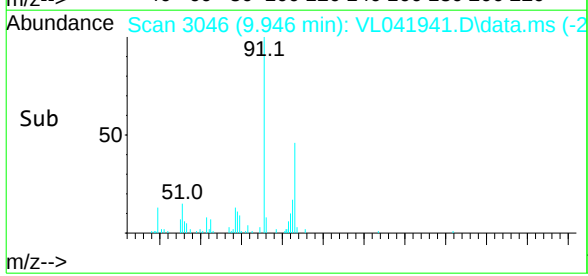
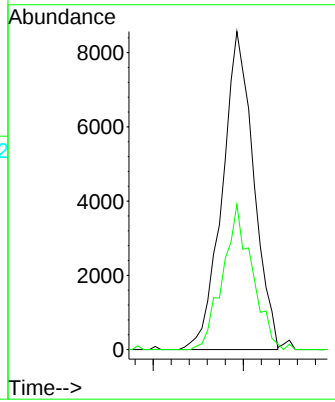
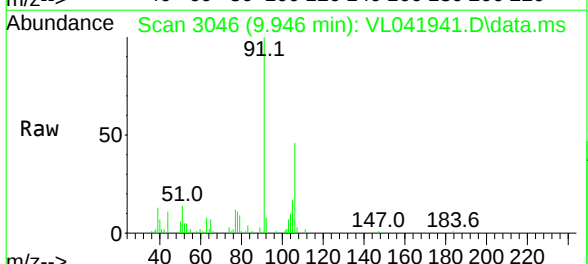
Manual Integrations
APPROVED

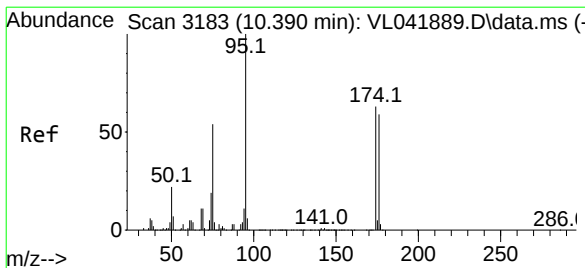
Reviewed By :Mahesh Dadoda 01/21/2025
Supervised By :Semsettin Yesilyurt 01/21/2025



#60
o-Xylene
Concen: 0.255 ppbv
RT: 9.946 min Scan# 3046
Delta R.T. -0.032 min
Lab File: VL041941.D
Acq: 21 Jan 2025 11:34

Tgt Ion: 91 Resp: 10350
Ion Ratio Lower Upper
91 100
106 42.8 21.3 63.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.118 ppbv

RT: 10.361 min Scan# 31

Delta R.T. -0.029 min

Lab File: VL041941.D

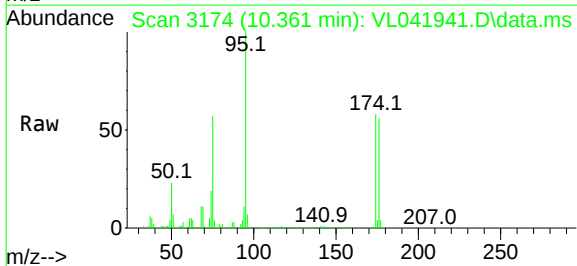
Acq: 21 Jan 2025 11:34

Instrument :

MSVOA_L

ClientSampleId :

IA2DL



Tgt Ion: 95 Resp: 259826

Ion Ratio Lower Upper

95 100

174 58.1 49.0 73.4

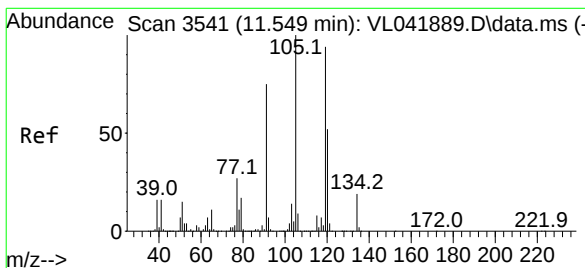
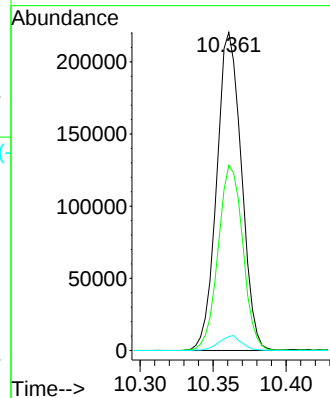
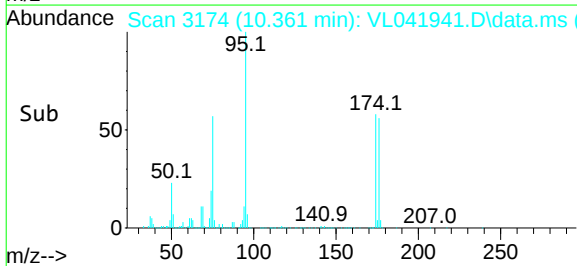
175 4.3 3.8 5.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/21/2025

Supervised By :Semsettin Yesilyurt 01/21/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.128 ppbv

RT: 11.523 min Scan# 3533

Delta R.T. -0.026 min

Lab File: VL041941.D

Acq: 21 Jan 2025 11:34

Tgt Ion:105 Resp: 5945

Ion Ratio Lower Upper

105 100

120 43.0 41.4 62.2

91 5.9 60.2 90.2#

77 13.0 22.0 33.0#

