

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111125\
 Data File : VL043185.D
 Acq On : 11 Nov 2025 11:41
 Operator : SY/MD
 Sample : Q3594-01DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2025
 Supervised By :Mahesh Dadoda 11/13/2025

Quant Time: Nov 12 00:16:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Wed Oct 15 02:12:58 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	143763	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.975	114	397242	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.895	117	331668	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	253627	9.838	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						Qvalue
9) Propene	1.489	41	9988	1.018	ppbv	92
10) Heptane	5.001	43	7529m	0.267	ppbv	
13) Ethanol	1.729	45	21094	5.815	ppbv	96
15) Acetone	1.848	43	17626m	0.910	ppbv	
19) Isopropyl Alcohol	1.897	45	7729	0.640	ppbv #	64
20) Methylene Chloride	2.072	84	25402	3.316	ppbv #	86
26) Hexane	2.839	57	80281	3.626	ppbv #	43
30) Cyclohexane	3.871	84	2891m	0.150	ppbv	
36) Benzene	3.674	78	14543	0.389	ppbv	94
44) 2,2,4-Trimethylpentane	4.661	57	20554m	0.326	ppbv	
53) Toluene	6.953	91	36603	0.824	ppbv	100
58) Ethyl Benzene	9.367	91	9967	0.175	ppbv	99
59) m/p-Xylene	9.542	91	21079	0.464	ppbv	98
60) o-Xylene	9.976	91	7399	0.165	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	5622	0.110	ppbv #	49

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

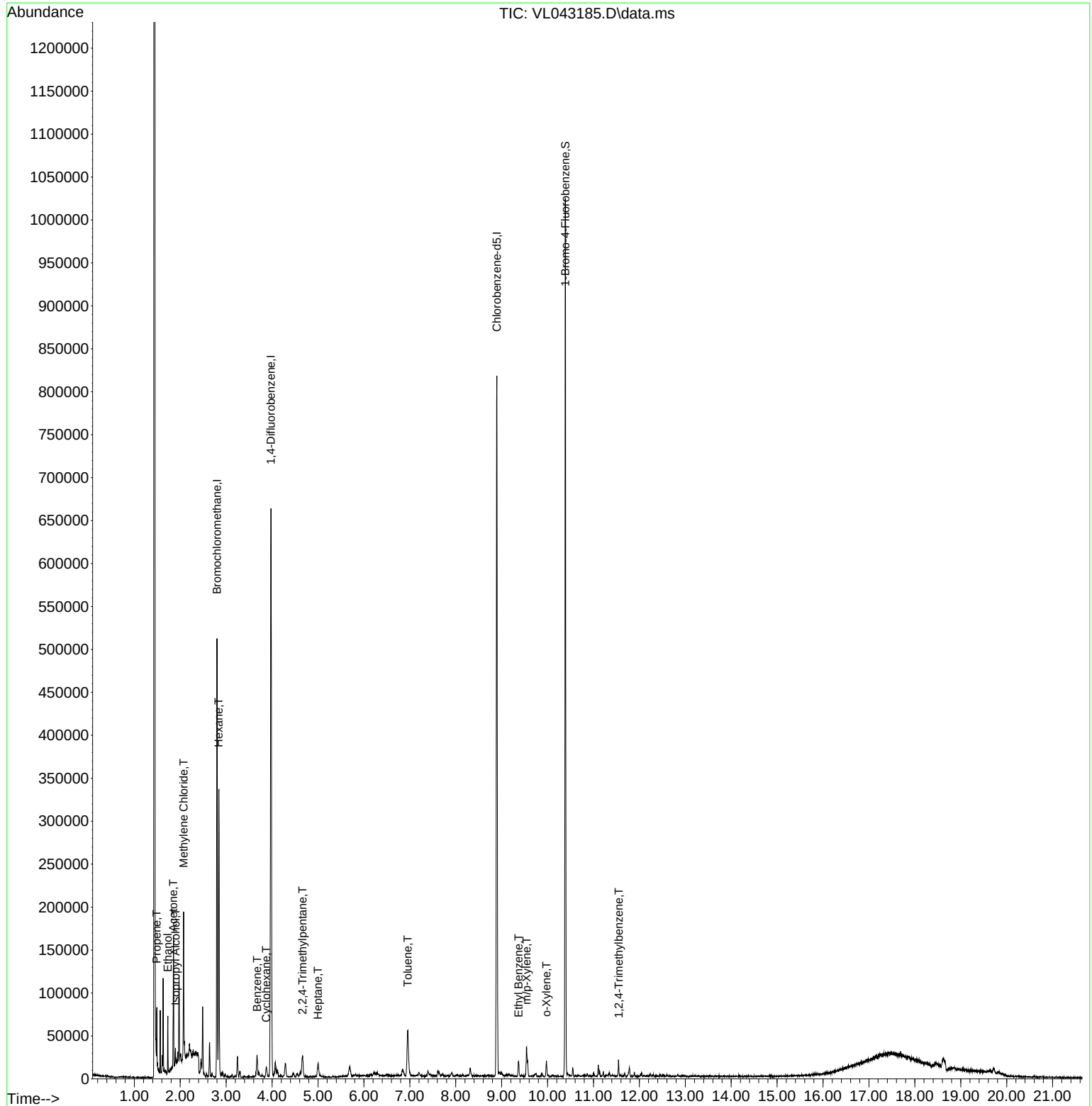
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111125\
Data File : VL043185.D
Acq On : 11 Nov 2025 11:41
Operator : SY/MD
Sample : Q3594-01DL 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

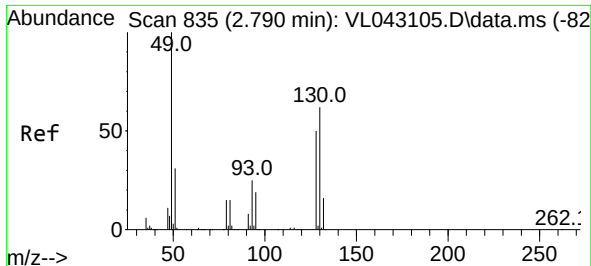
Instrument :
MSVOA_L
ClientSampleId :
IA1ADL

Quant Time: Nov 12 00:16:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2025
Supervised By :Mahesh Dadoda 11/13/2025





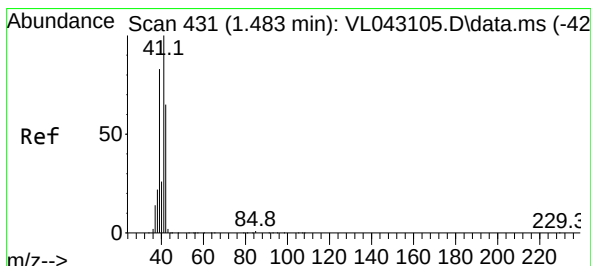
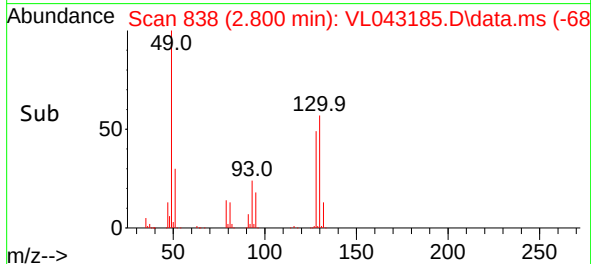
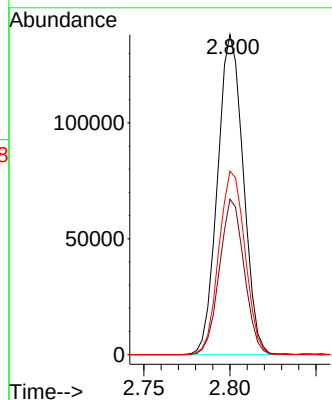
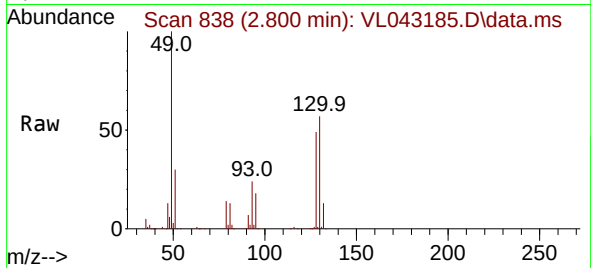
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 835
Delta R.T. 0.010 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

Instrument :
MSVOA_L
ClientSampleId :
IA1ADL

Tgt Ion: 49 Resp: 14376
Ion Ratio Lower Upper
49 100
128 46.7 24.4 73.4
130 58.2 31.0 93.0

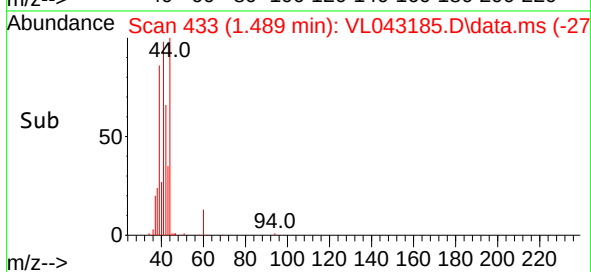
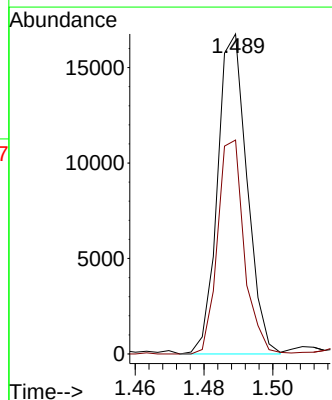
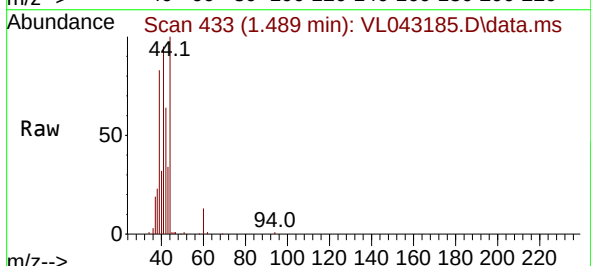
Manual Integrations
APPROVED

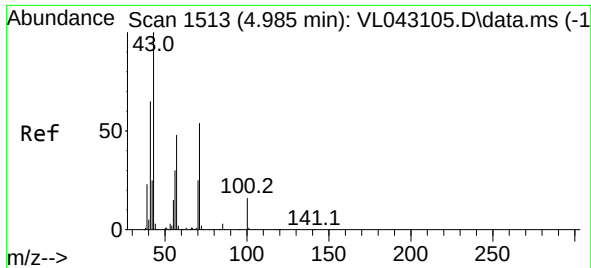
Reviewed By :Semsettin Yesilyurt 11/13/2025
Supervised By :Mahesh Dadoda 11/13/2025



#9
Propene
Concen: 1.018 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

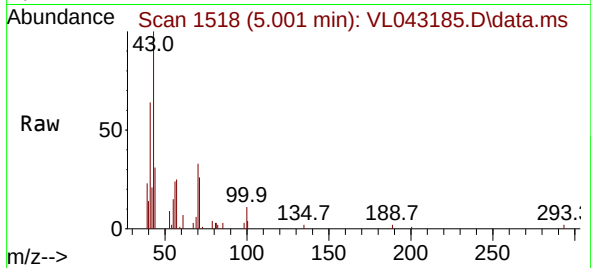
Tgt Ion: 41 Resp: 9988
Ion Ratio Lower Upper
41 100
42 62.5 55.1 82.7





#10
Heptane
Concen: 0.267 ppbv m
RT: 5.001 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

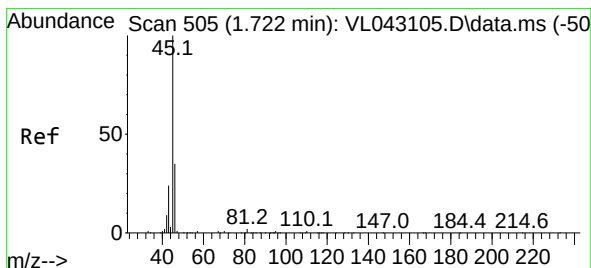
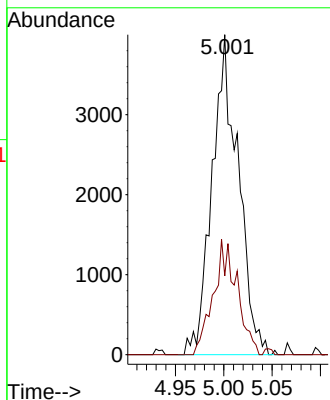
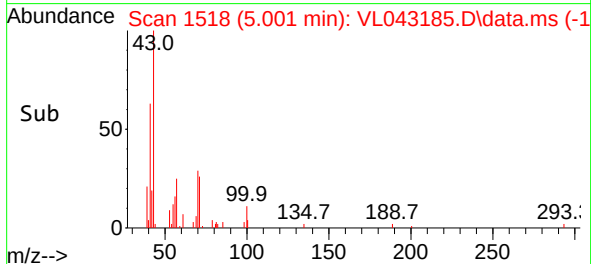
Instrument :
MSVOA_L
ClientSampleId :
IA1ADL



Tgt Ion: 43 Resp: 7529
Ion Ratio Lower Upper
43 100
57 32.9 40.8 61.2

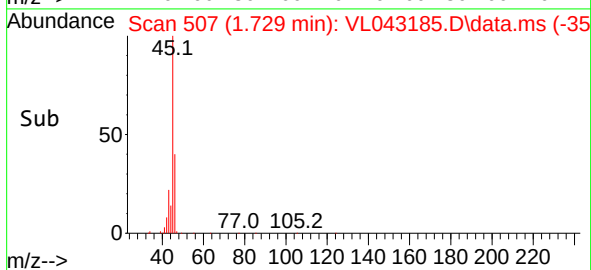
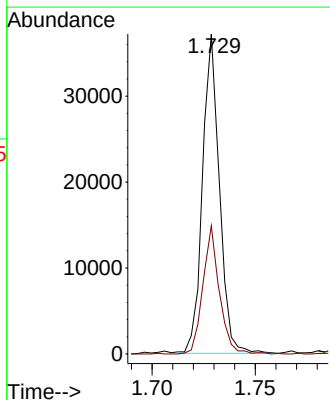
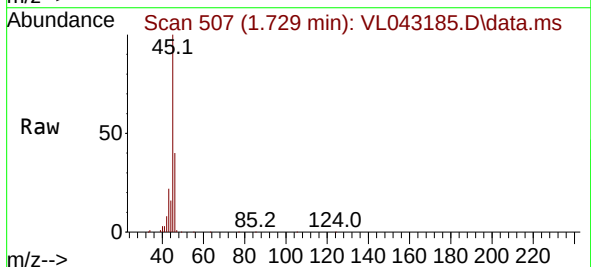
Manual Integrations
APPROVED

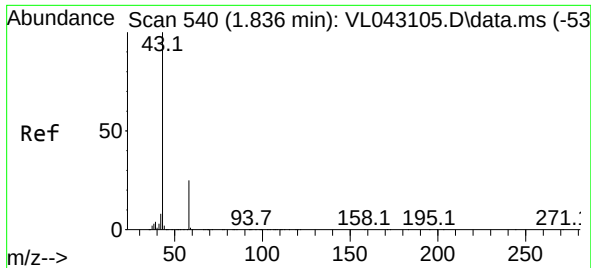
Reviewed By :Semsettin Yesilyurt 11/13/2025
Supervised By :Mahesh Dadoda 11/13/2025



#13
Ethanol
Concen: 5.815 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.006 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

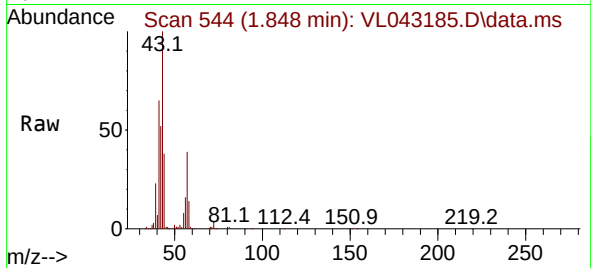
Tgt Ion: 45 Resp: 21094
Ion Ratio Lower Upper
45 100
46 39.4 14.7 58.9





#15
Acetone
Concen: 0.910 ppbv m
RT: 1.848 min Scan# 540
Delta R.T. 0.013 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

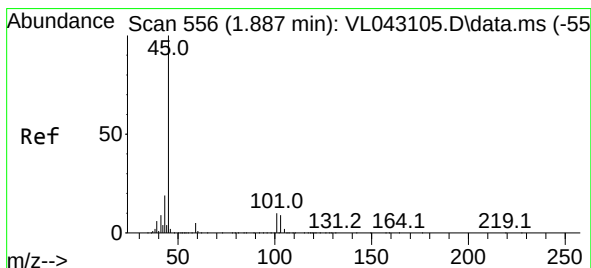
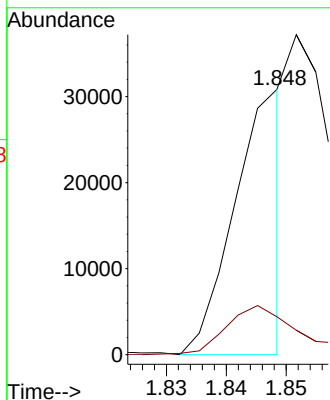
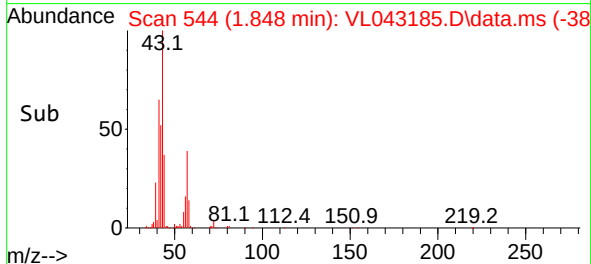
Instrument :
MSVOA_L
ClientSampleId :
IA1ADL



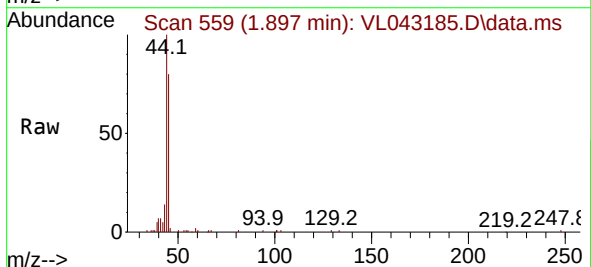
Tgt Ion: 43 Resp: 17620
Ion Ratio Lower Upper
43 100
58 26.7 20.8 31.2

Manual Integrations
APPROVED

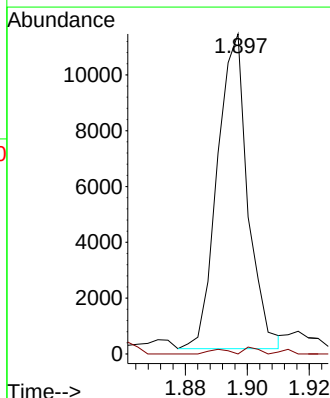
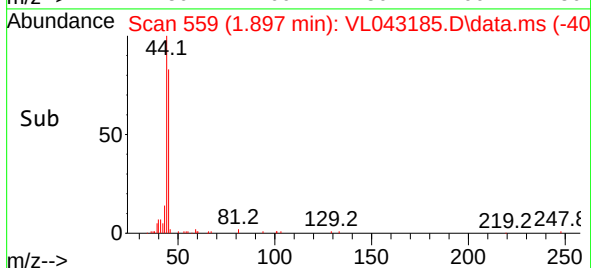
Reviewed By :Semsettin Yesilyurt 11/13/2025
Supervised By :Mahesh Dadoda 11/13/2025

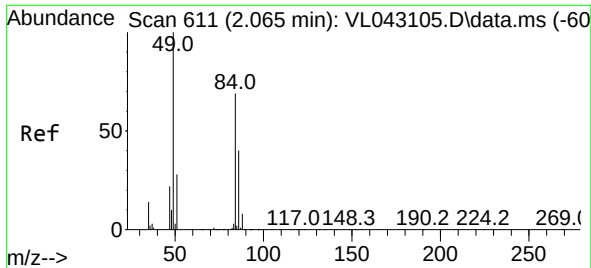


#19
Isopropyl Alcohol
Concen: 0.640 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.010 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41



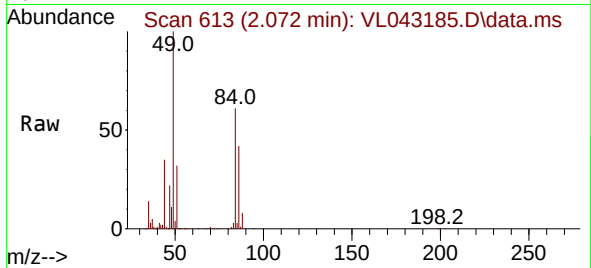
Tgt Ion: 45 Resp: 7729
Ion Ratio Lower Upper
45 100
58 60.8 31.3 46.9#





#20
Methylene Chloride
Concen: 3.316 ppbv
RT: 2.072 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

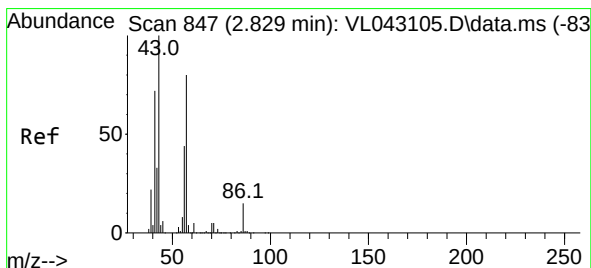
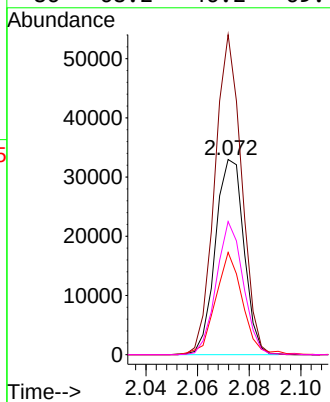
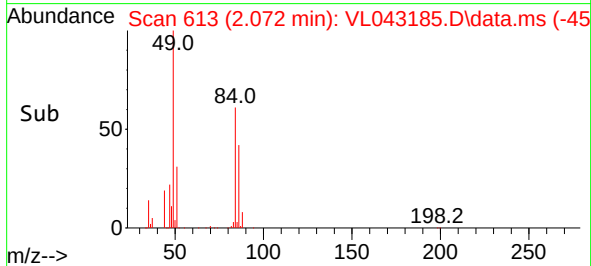
Instrument :
MSVOA_L
ClientSampleId :
IA1ADL



Tgt Ion: 84 Resp: 25402
Ion Ratio Lower Upper
84 100
49 163.5 116.6 175.0
51 52.4 34.8 52.2
86 68.2 46.2 69.4

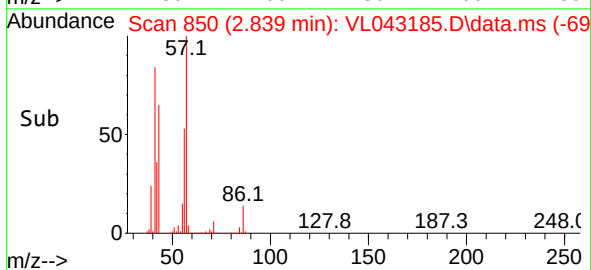
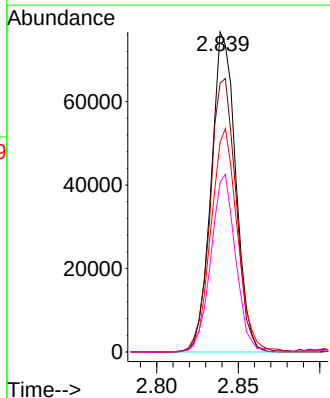
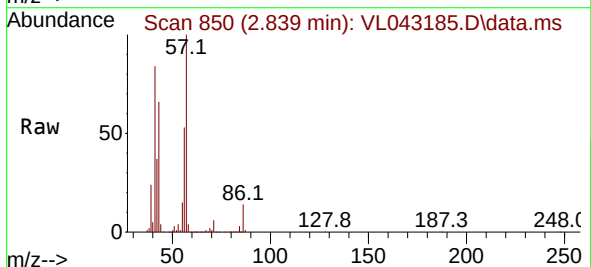
Manual Integrations
APPROVED

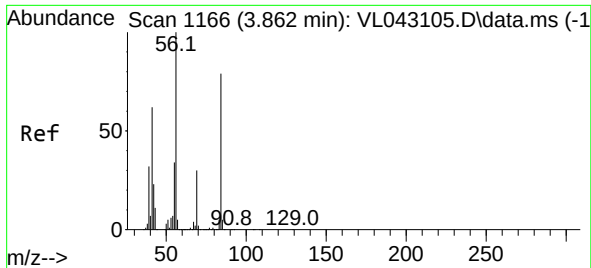
Reviewed By :Semsettin Yesilyurt 11/13/2025
Supervised By :Mahesh Dadoda 11/13/2025



#26
Hexane
Concen: 3.626 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.010 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

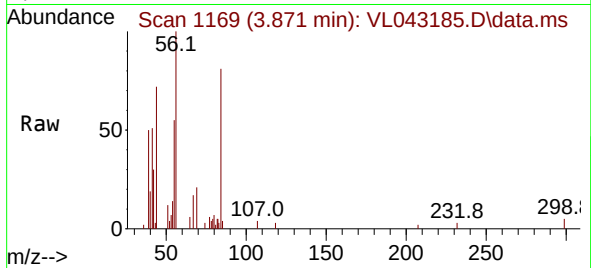
Tgt Ion: 57 Resp: 80281
Ion Ratio Lower Upper
57 100
41 90.0 71.4 107.0
43 75.3 178.5 267.7#
56 55.9 42.2 63.4





#30
Cyclohexane
Concen: 0.150 ppbv m
RT: 3.871 min Scan# 1166
Delta R.T. 0.010 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

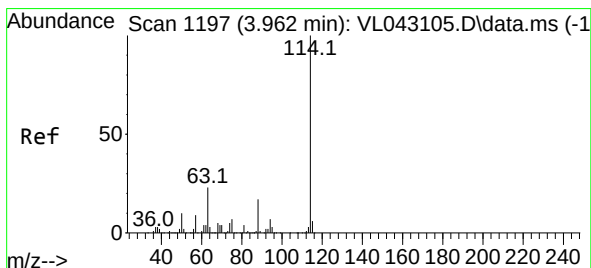
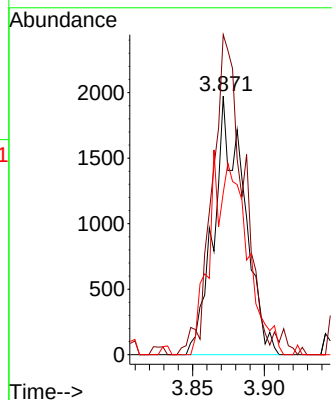
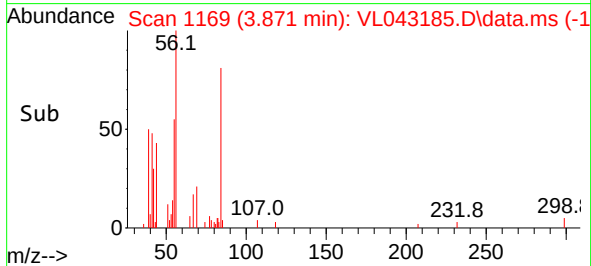
Instrument :
MSVOA_L
ClientSampleId :
IA1ADL



Tgt Ion: 84 Resp: 289
Ion Ratio Lower Upper
84 100
56 0.0 100.9 151.3
41 0.0 63.8 95.6

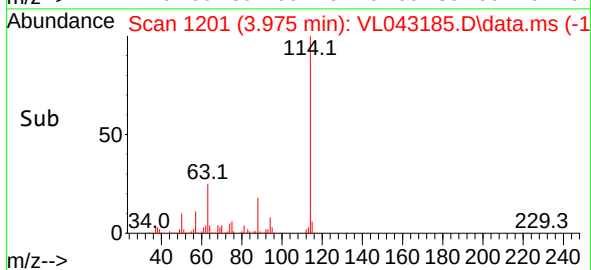
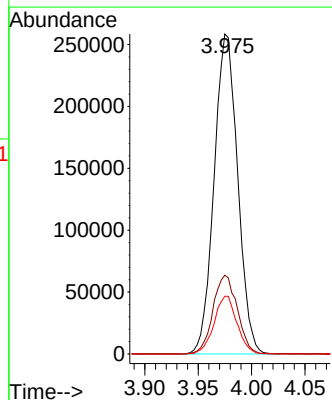
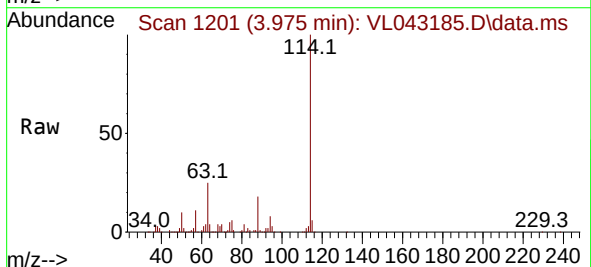
Manual Integrations
APPROVED

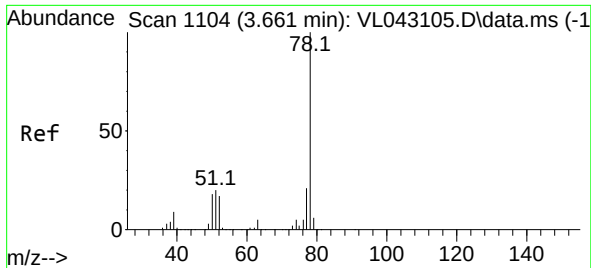
Reviewed By :Semsettin Yesilyurt 11/13/2025
Supervised By :Mahesh Dadoda 11/13/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. 0.013 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

Tgt Ion:114 Resp: 397242
Ion Ratio Lower Upper
114 100
63 25.4 19.3 28.9
88 17.6 13.9 20.9





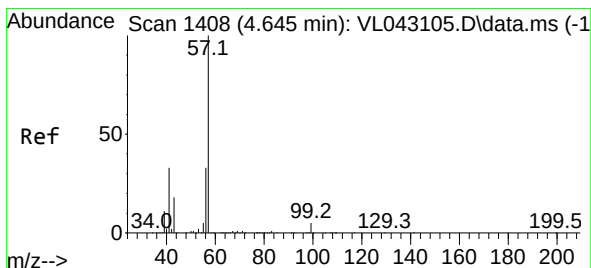
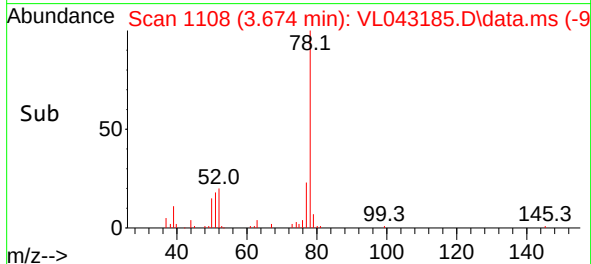
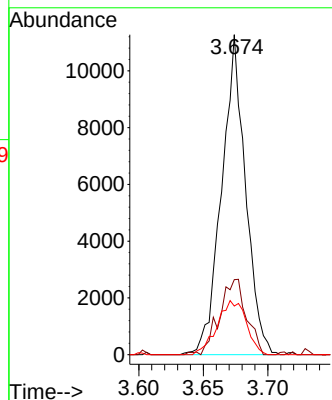
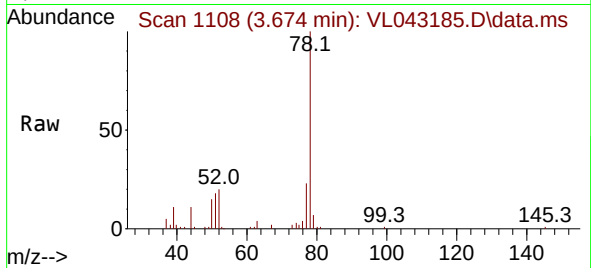
#36
Benzene
Concen: 0.389 ppbv
RT: 3.674 min Scan# 1104
Delta R.T. 0.013 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

Instrument :
MSVOA_L
ClientSampleId :
IA1ADL

Tgt Ion: 78 Resp: 1454
Ion Ratio Lower Upper
78 100
77 23.5 17.0 25.6
50 15.2 14.6 22.0

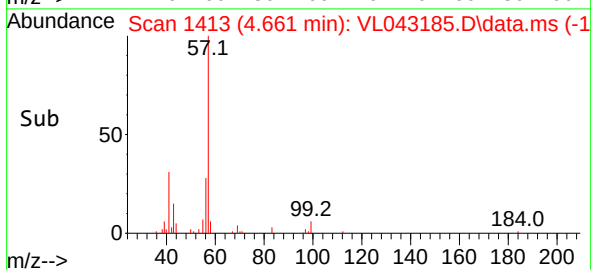
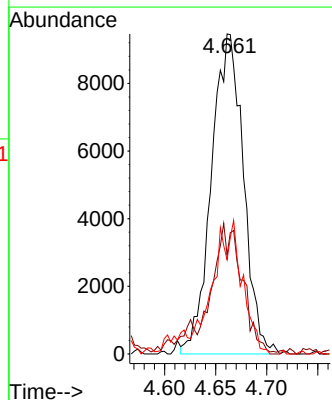
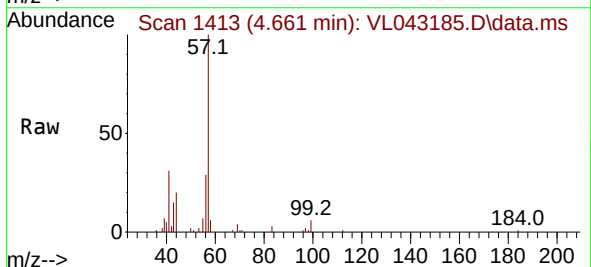
Manual Integrations
APPROVED

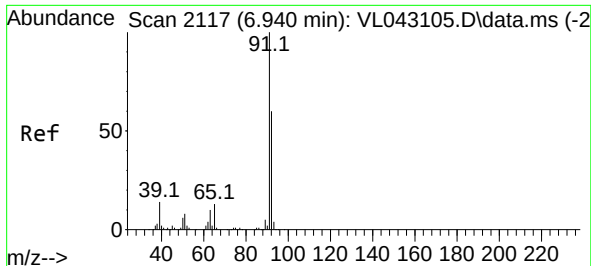
Reviewed By :Semsettin Yesilyurt 11/13/2025
Supervised By :Mahesh Dadoda 11/13/2025



#44
2,2,4-Trimethylpentane
Concen: 0.326 ppbv m
RT: 4.661 min Scan# 1413
Delta R.T. 0.016 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

Tgt Ion: 57 Resp: 20554
Ion Ratio Lower Upper
57 100
41 41.3 26.3 39.5#
56 0.0 25.9 38.9#





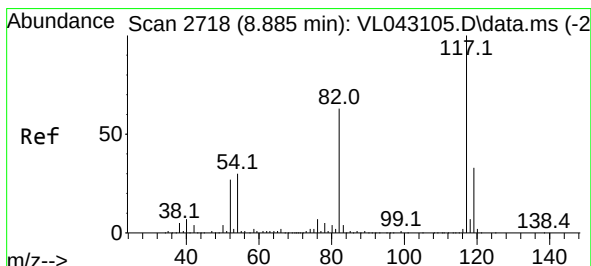
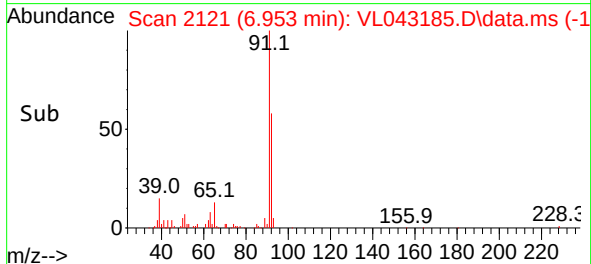
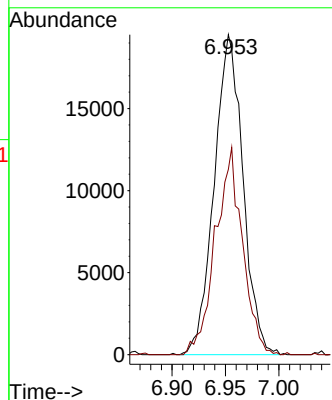
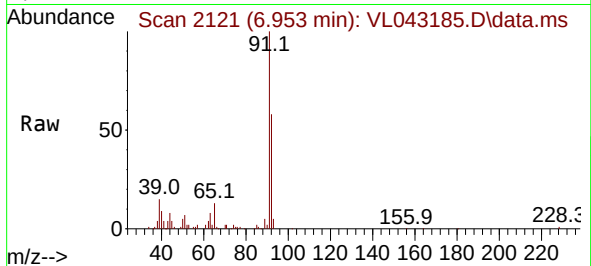
#53
Toluene
Concen: 0.824 ppbv
RT: 6.953 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

Instrument :
MSVOA_L
ClientSampleId :
IA1ADL

Tgt Ion: 91 Resp: 3660
Ion Ratio Lower Upper
91 100
92 60.9 48.8 73.2

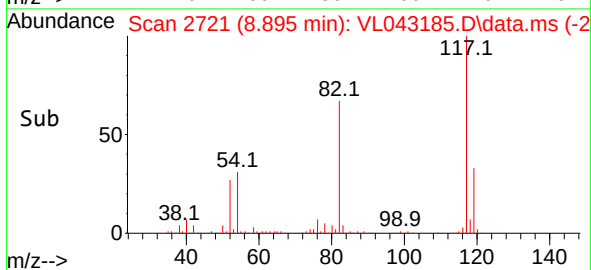
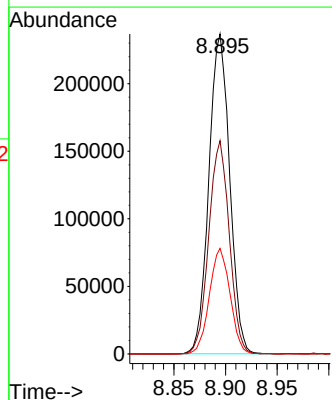
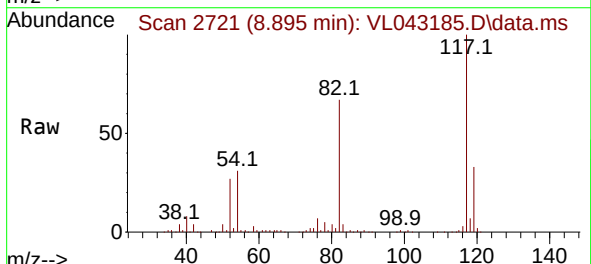
Manual Integrations
APPROVED

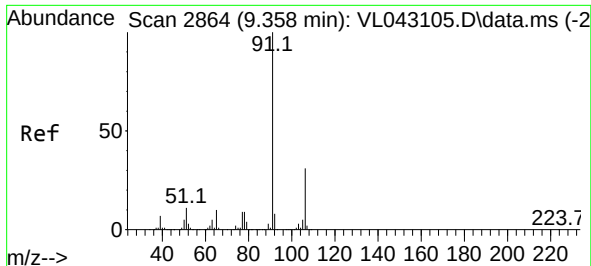
Reviewed By :Semsettin Yesilyurt 11/13/2025
Supervised By :Mahesh Dadoda 11/13/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. 0.010 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

Tgt Ion:117 Resp: 331668
Ion Ratio Lower Upper
117 100
82 65.9 53.8 80.8
119 32.9 25.4 38.0





#58

Ethyl Benzene

Concen: 0.175 ppbv

RT: 9.367 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL043185.D

Acq: 11 Nov 2025 11:41

Instrument :

MSVOA_L

ClientSampleId :

IA1ADL

Tgt Ion: 91 Resp: 996

Ion Ratio Lower Upper

91 100

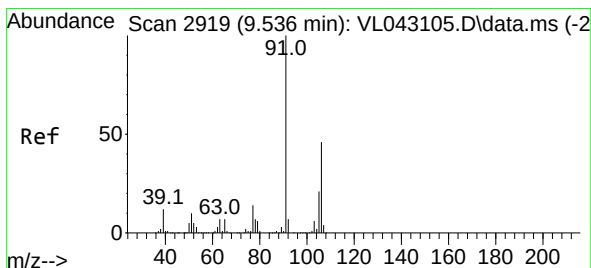
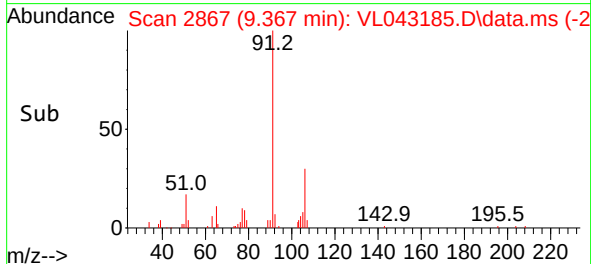
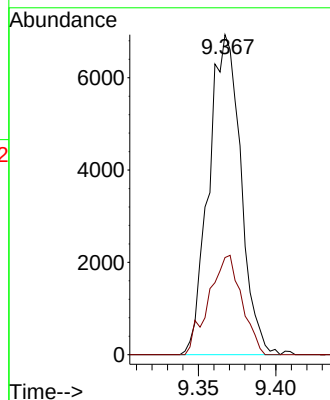
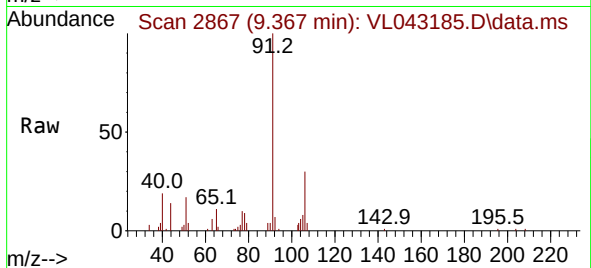
106 30.4 24.8 37.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2025

Supervised By :Mahesh Dadoda 11/13/2025



#59

m/p-Xylene

Concen: 0.464 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.006 min

Lab File: VL043185.D

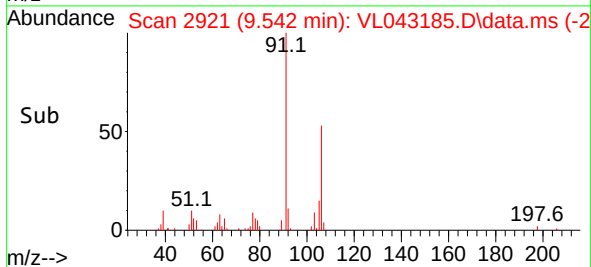
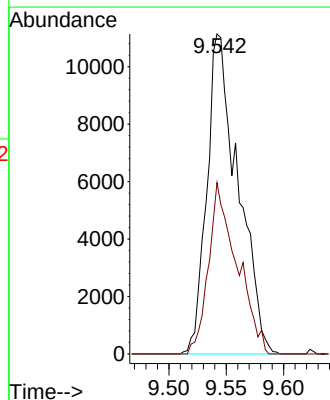
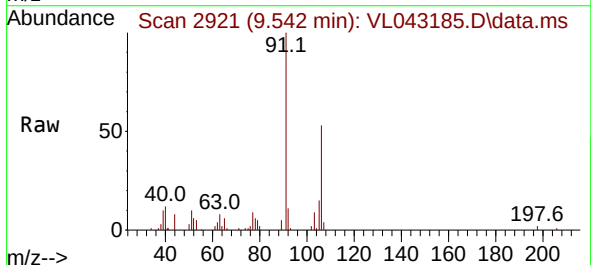
Acq: 11 Nov 2025 11:41

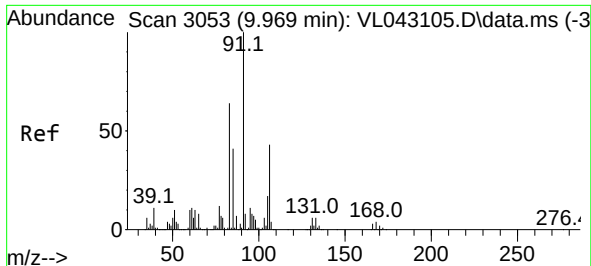
Tgt Ion: 91 Resp: 21079

Ion Ratio Lower Upper

91 100

106 48.7 38.0 57.0





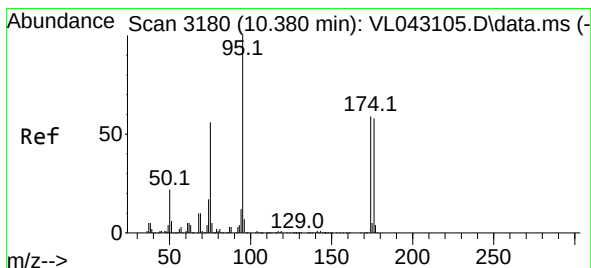
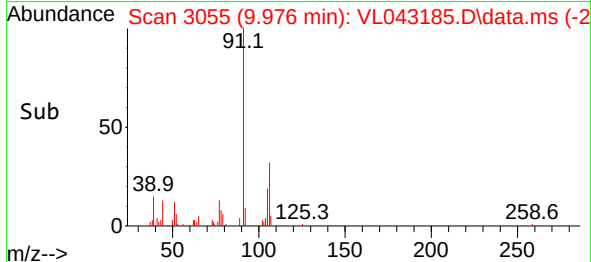
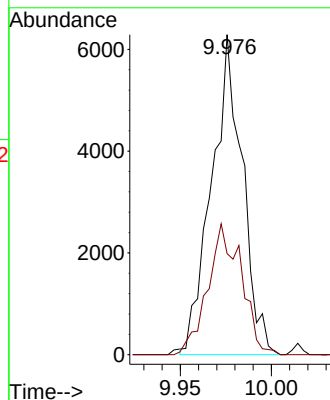
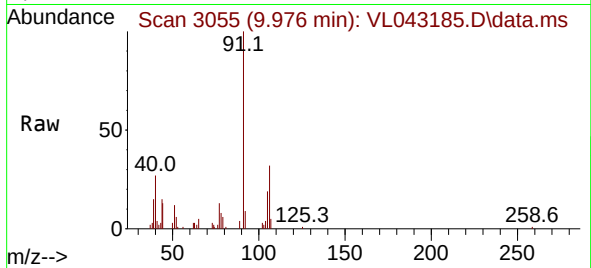
#60
o-Xylene
Concen: 0.165 ppbv
RT: 9.976 min Scan# 3053
Delta R.T. 0.006 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

Instrument :
MSVOA_L
ClientSampleId :
IA1ADL

Tgt Ion: 91 Resp: 7399
Ion Ratio Lower Upper
91 100
106 44.6 21.9 65.8

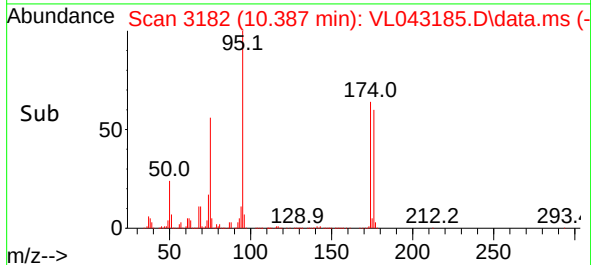
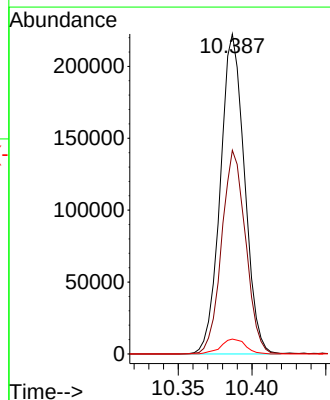
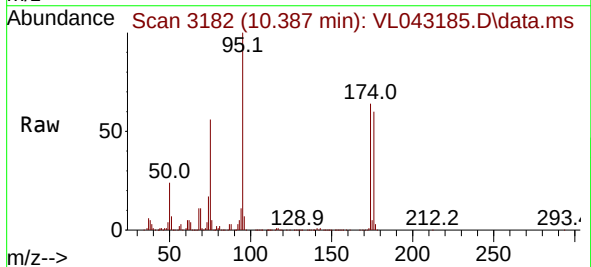
Manual Integrations
APPROVED

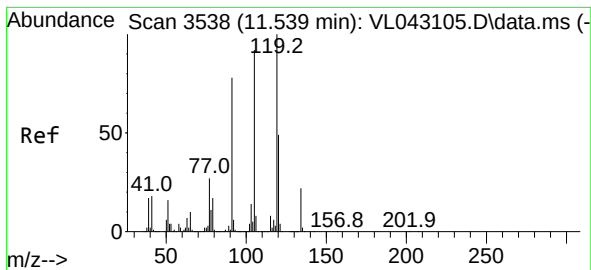
Reviewed By :Semsettin Yesilyurt 11/13/2025
Supervised By :Mahesh Dadoda 11/13/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.838 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.006 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

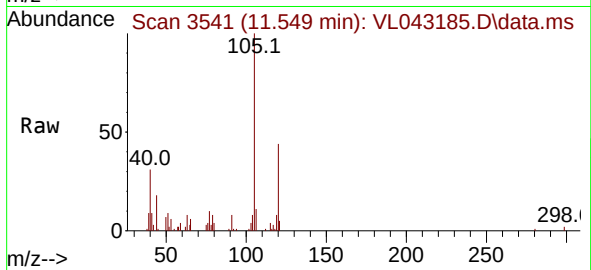
Tgt Ion: 95 Resp: 253627
Ion Ratio Lower Upper
95 100
174 63.5 48.3 72.5
175 4.8 3.8 5.8





#74
1,2,4-Trimethylbenzene
Concen: 0.110 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.010 min
Lab File: VL043185.D
Acq: 11 Nov 2025 11:41

Instrument :
MSVOA_L
ClientSampleId :
IA1ADL



Tgt Ion:	105	Resp:	562
Ion	Ratio	Lower	Upper
105	100		
120	49.1	42.8	64.2
91	7.5	68.3	102.5
77	10.1	23.4	35.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/13/2025
Supervised By :Mahesh Dadoda 11/13/2025

