

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
 Data File : VL042897.D
 Acq On : 04 Sep 2025 19:18
 Operator : SY/MD
 Sample : Q3000-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 01:25:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	117843	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	310691	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	265064	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 205770 10.351 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	9061	0.525	ppbv	95
3) Chlorodifluoromethane	1.479	51	20277	1.062	ppbv	94
4) Chloromethane	1.534	50	3359	0.482	ppbv	96
9) Propene	1.486	41	12994	1.576	ppbv	94
11) Trichlorofluoromethane	1.881	101	5002m	0.294	ppbv	
13) Ethanol	1.725	45	13239	17.562	ppbv	92
15) Acetone	1.839	43	63502	4.074	ppbv	99
19) Isopropyl Alcohol	1.890	45	22694	2.437	ppbv #	43
20) Methylene Chloride	2.068	84	4121	0.631	ppbv #	91
26) Hexane	2.835	57	9544	0.548	ppbv #	56
34) 2-Butanone	2.567	43	7029	0.335	ppbv	98
35) Carbon Tetrachloride	3.768	117	2248m	0.105	ppbv	
36) Benzene	3.667	78	10979	0.369	ppbv #	94
44) 2,2,4-Trimethylpentane	4.651	57	43809m	0.868	ppbv	
53) Toluene	6.946	91	71772	2.029	ppbv	100
58) Ethyl Benzene	9.367	91	7037	0.150	ppbv	91
59) m/p-Xylene	9.542	91	15926m	0.434	ppbv	
60) o-Xylene	9.969	91	6210	0.168	ppbv	95
61) Styrene	9.885	104	4357m	0.252	ppbv	
74) 1,2,4-Trimethylbenzene	11.542	105	6218m	0.149	ppbv	

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

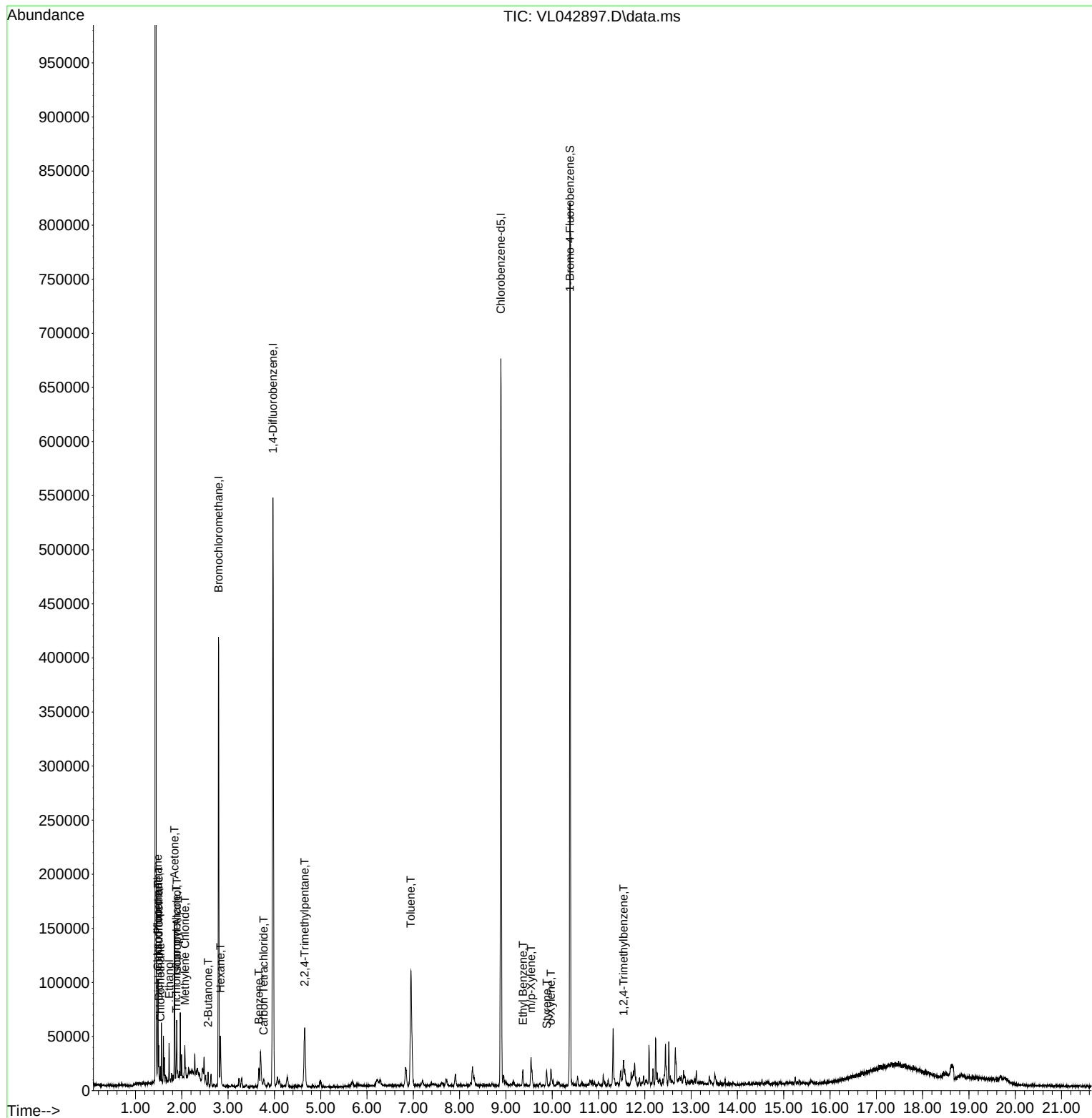
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
Data File : VL042897.D
Acq On : 04 Sep 2025 19:18
Operator : SY/MD
Sample : Q3000-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

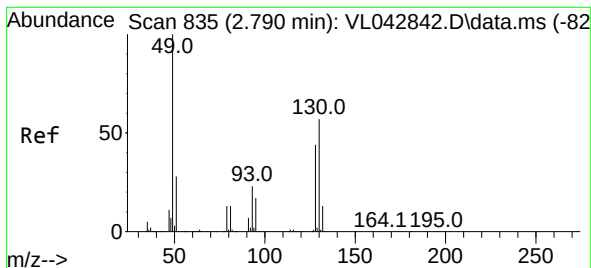
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Quant Time: Sep 05 01:25:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

Manual Integrations
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.793 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042897.D

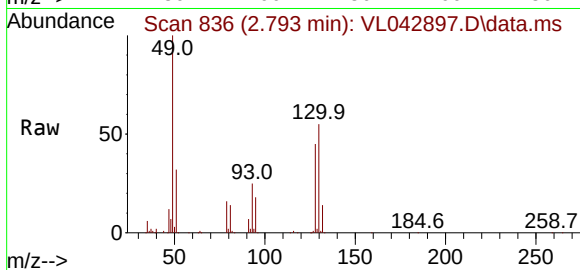
Acq: 04 Sep 2025 19:18

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP



Tgt Ion: 49 Resp: 11784

Ion Ratio Lower Upper

49 100

128 45.1 23.7 71.1

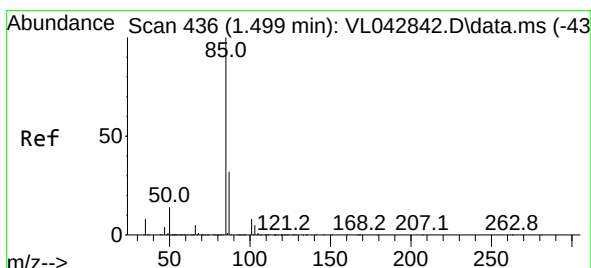
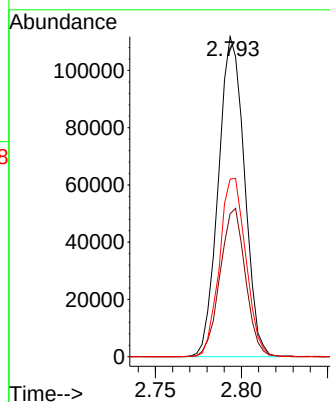
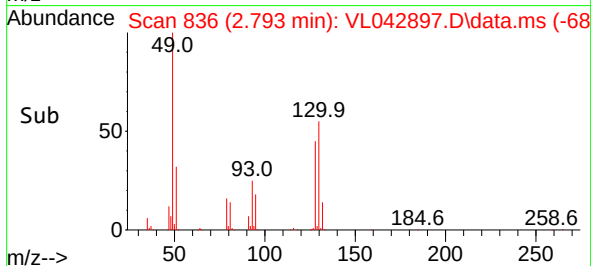
130 56.4 30.6 91.6

Manual Integrations

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Supervised By :Mahesh Dadoda 09/05/2025



#2

Dichlorodifluoromethane

Concen: 0.525 ppbv

RT: 1.502 min Scan# 437

Delta R.T. 0.003 min

Lab File: VL042897.D

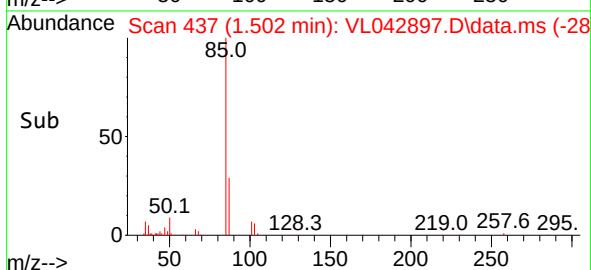
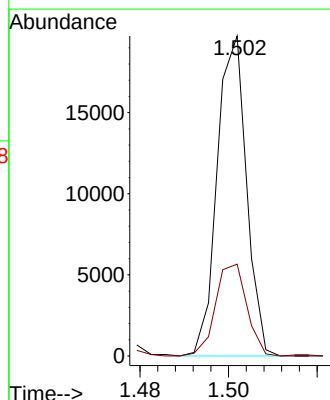
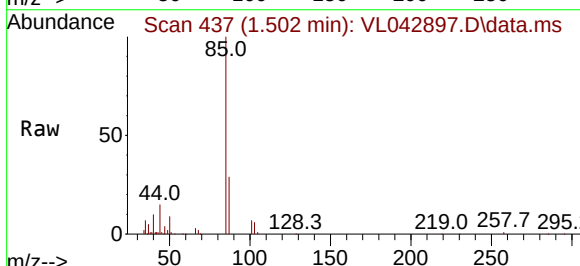
Acq: 04 Sep 2025 19:18

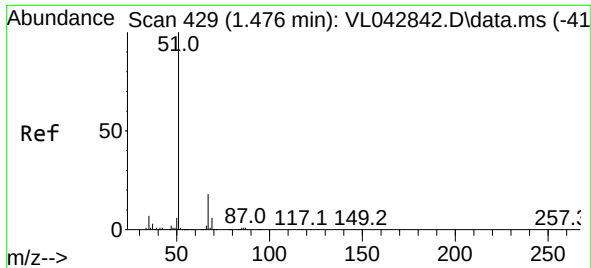
Tgt Ion: 85 Resp: 9061

Ion Ratio Lower Upper

85 100

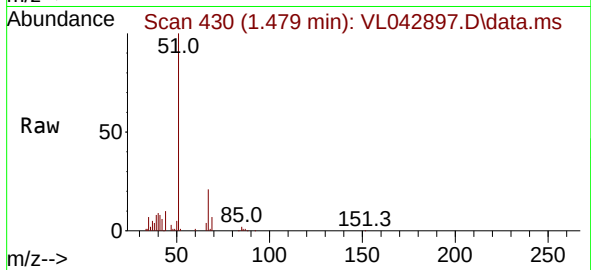
87 28.7 25.3 37.9





#3
Chlorodifluoromethane
Concen: 1.062 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

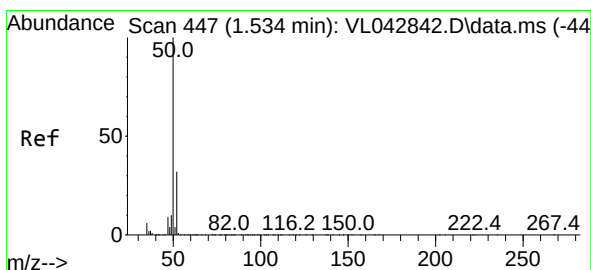
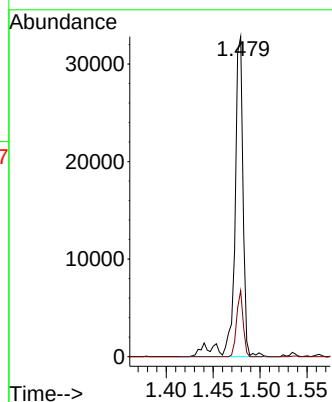
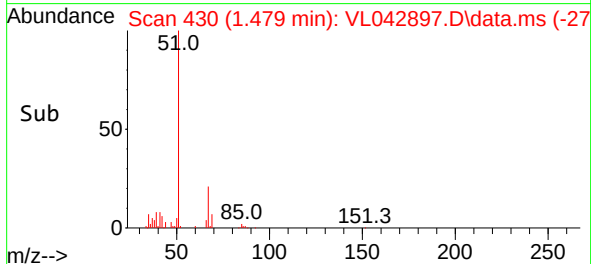
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion: 51 Resp: 2027
Ion Ratio Lower Upper
51 100
67 16.1 14.9 22.3

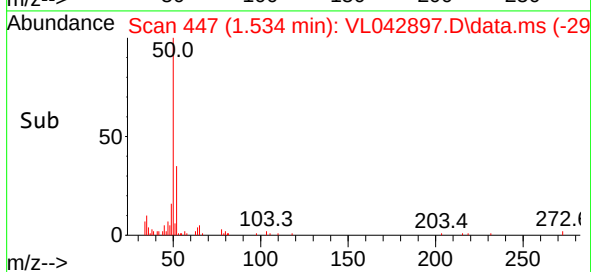
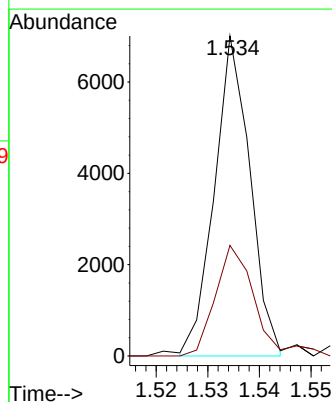
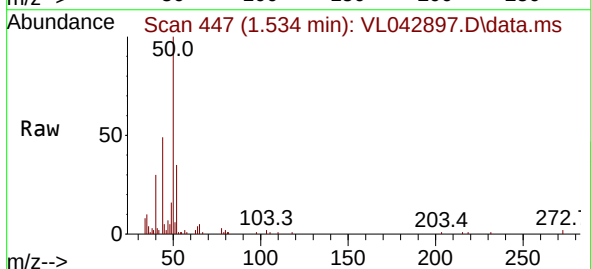
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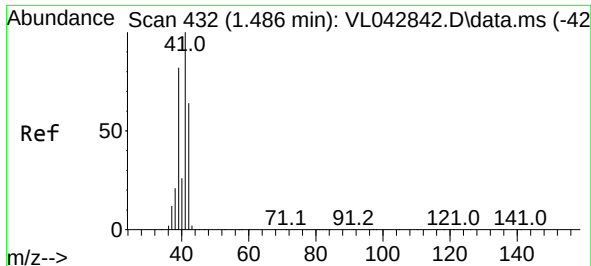
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#4
Chloromethane
Concen: 0.482 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

Tgt Ion: 50 Resp: 3359
Ion Ratio Lower Upper
50 100
52 34.9 25.9 38.9





#9

Propene

Concen: 1.576 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042897.D

Acq: 04 Sep 2025 19:18

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

Tgt Ion: 41 Resp: 12994

Ion Ratio Lower Upper

41 100

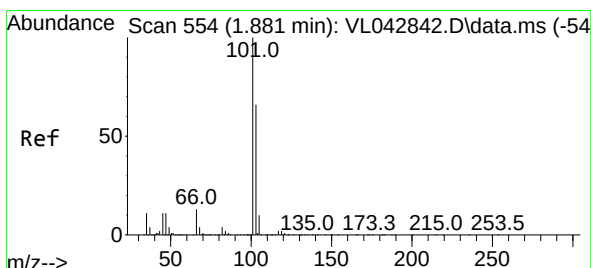
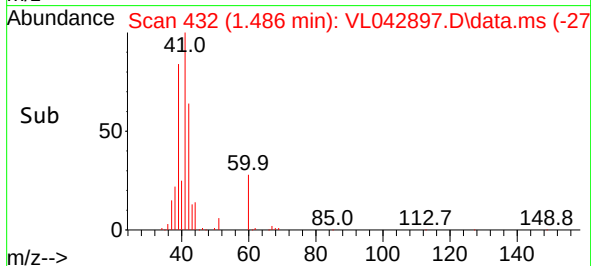
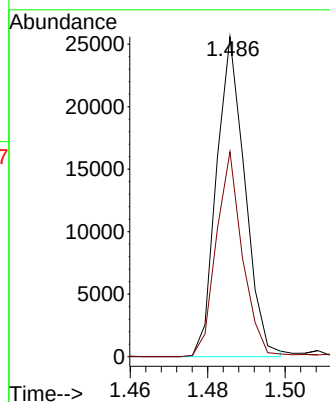
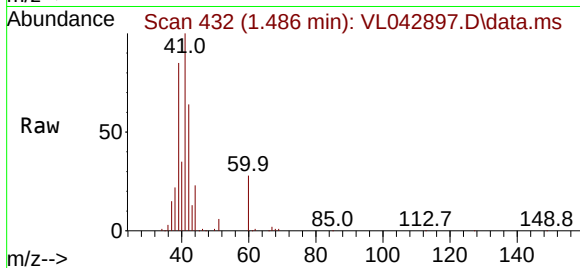
42 61.2 53.0 79.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#11

Trichlorofluoromethane

Concen: 0.294 ppbv m

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL042897.D

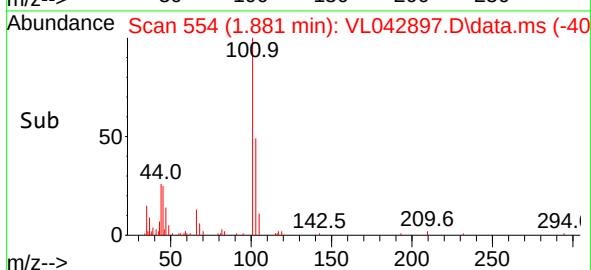
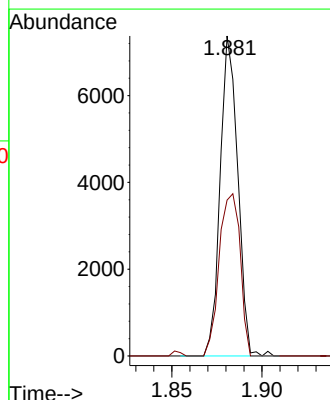
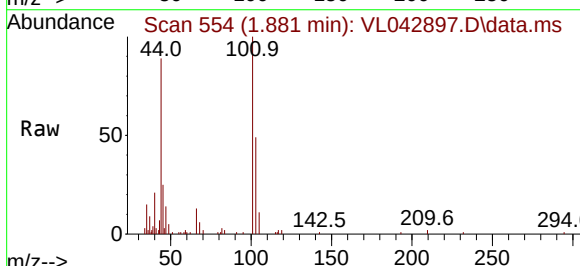
Acq: 04 Sep 2025 19:18

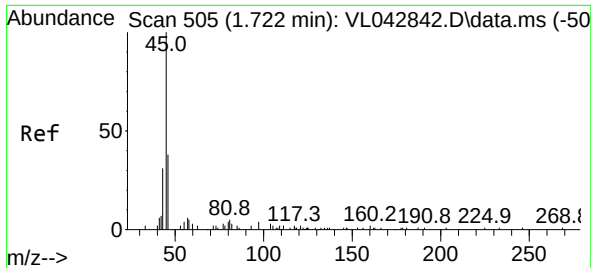
Tgt Ion:101 Resp: 5002

Ion Ratio Lower Upper

101 100

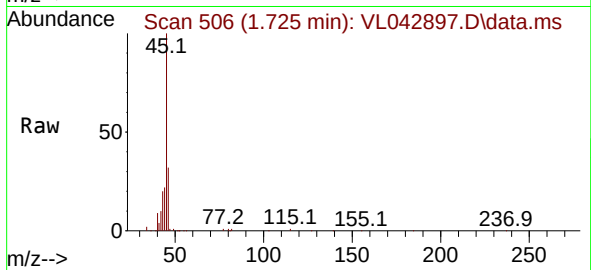
103 48.7 52.5 78.7#





#13
Ethanol
Concen: 17.562 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

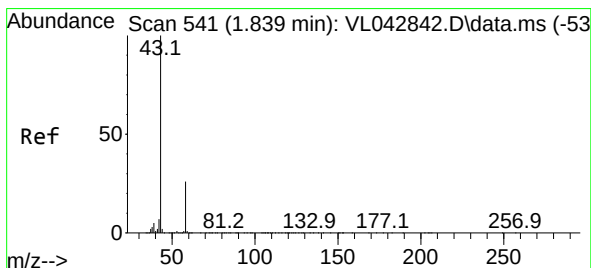
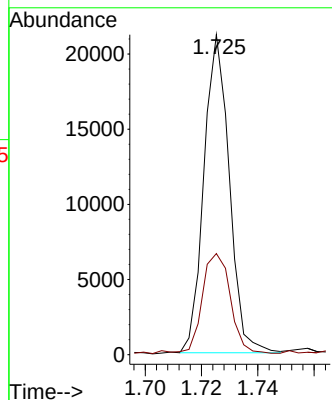
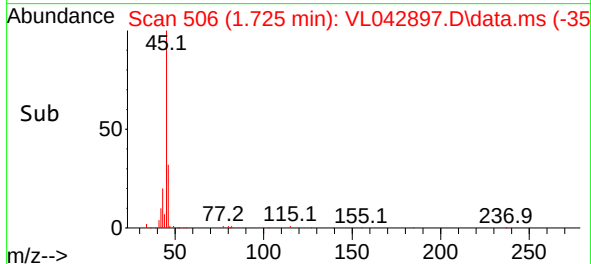
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion: 45 Resp: 13239
Ion Ratio Lower Upper
45 100
46 38.8 17.5 69.9

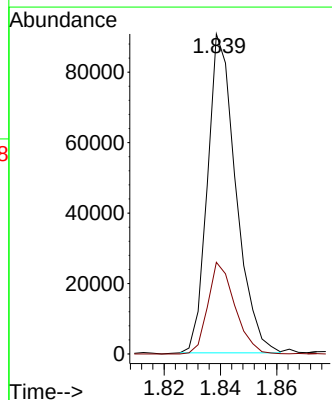
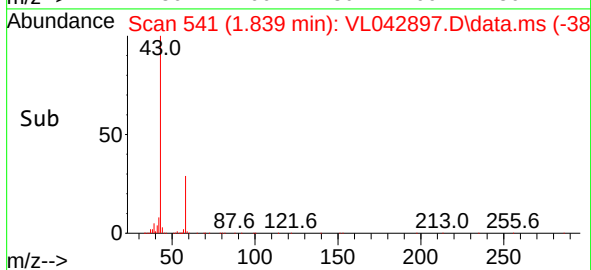
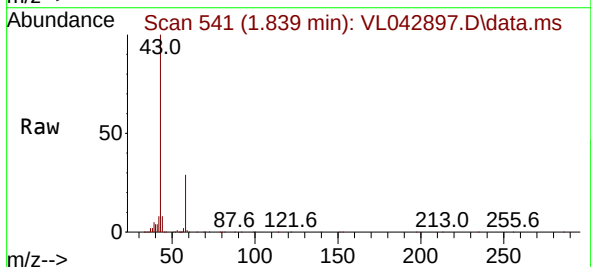
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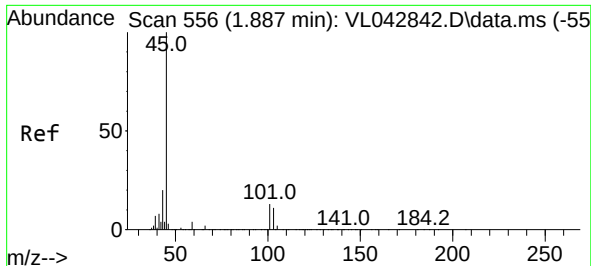
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#15
Acetone
Concen: 4.074 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

Tgt Ion: 43 Resp: 63502
Ion Ratio Lower Upper
43 100
58 27.4 22.4 33.6





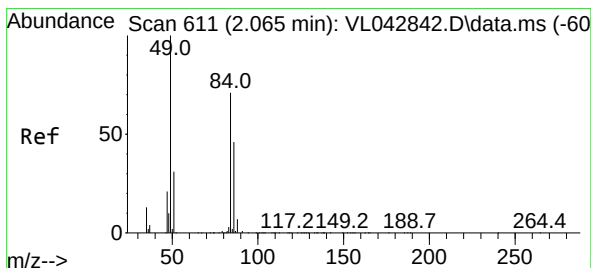
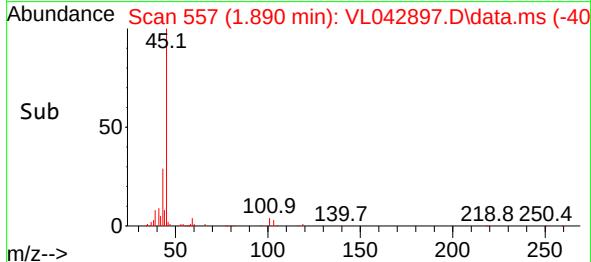
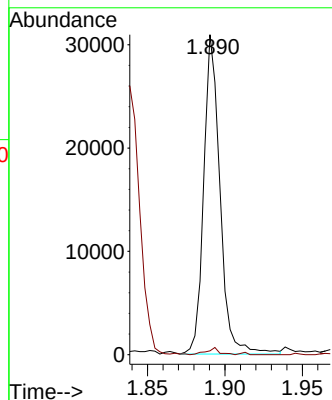
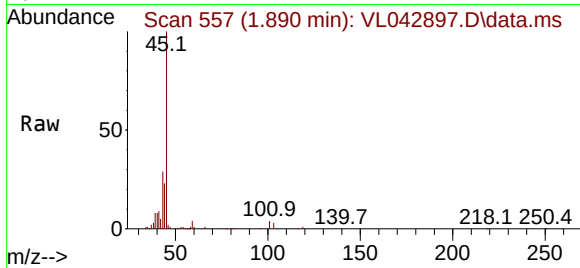
#19
Isopropyl Alcohol
Concen: 2.437 ppbv
RT: 1.890 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

Instrument :
MSVOA_L
ClientSampleId :
OA1DUP

Tgt Ion: 45 Resp: 22694
Ion Ratio Lower Upper
45 100
58 76.6 32.7 49.1

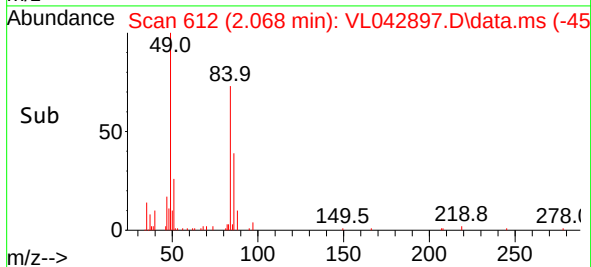
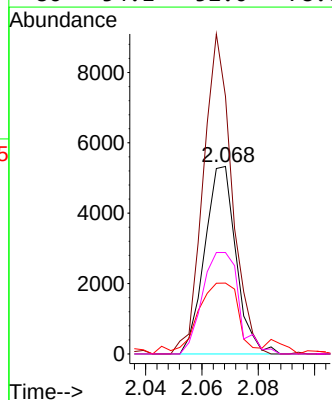
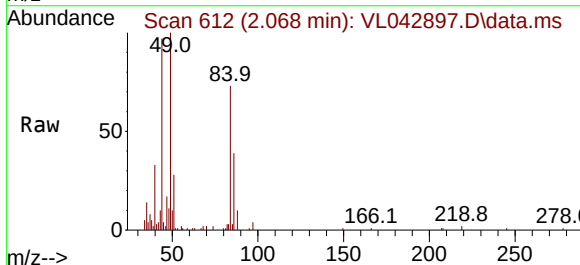
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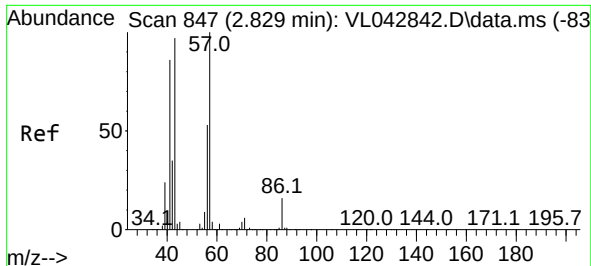
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#20
Methylene Chloride
Concen: 0.631 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

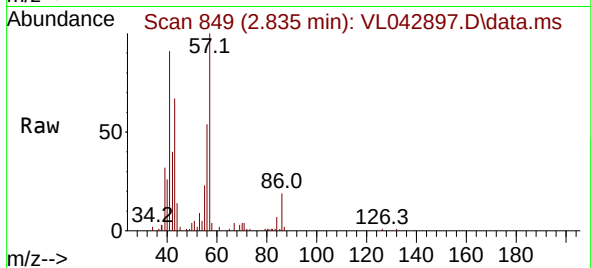
Tgt Ion: 84 Resp: 4121
Ion Ratio Lower Upper
84 100
49 134.2 112.3 168.5
51 35.8 36.0 54.0#
86 54.1 52.0 78.0





#26
Hexane
Concen: 0.548 ppbv
RT: 2.835 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

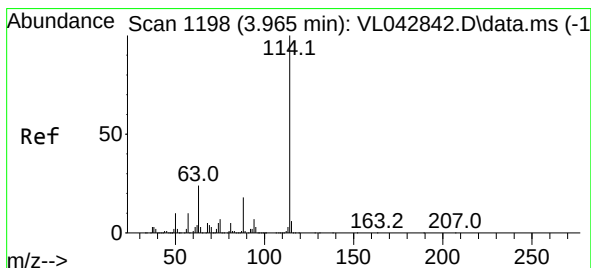
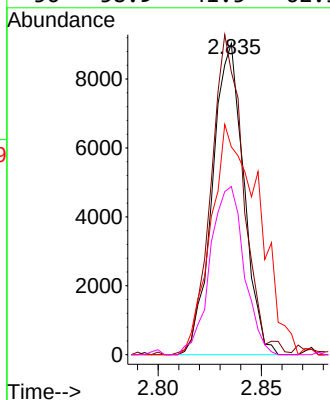
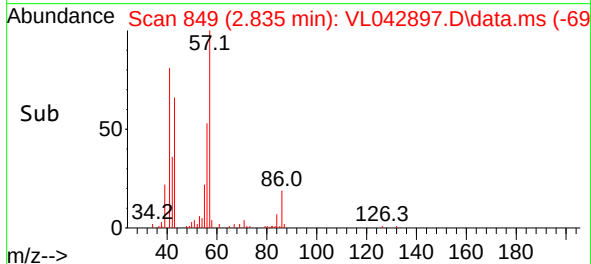
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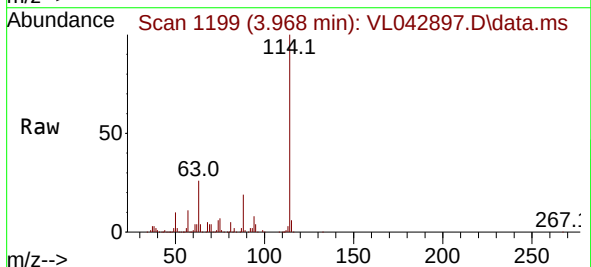
Tgt Ion: 57 Resp: 9544
Ion Ratio Lower Upper
57 100
41 107.9 68.6 103.0
43 115.5 168.5 252.7
56 58.9 41.5 62.3

Manual Integrations
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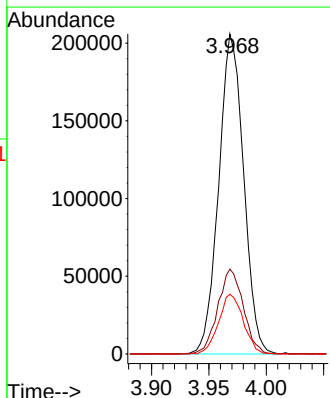
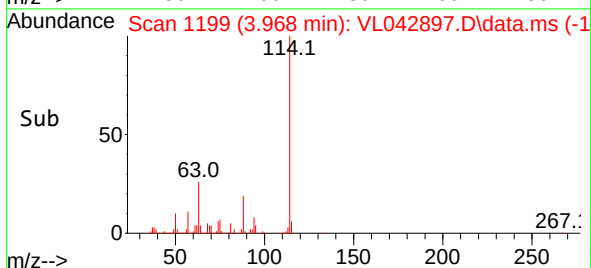
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

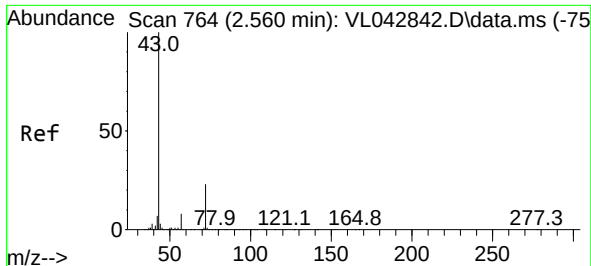


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.003 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18



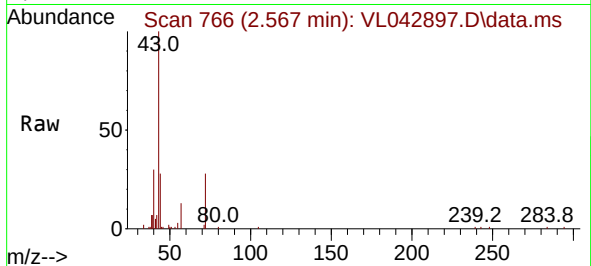
Tgt Ion:114 Resp: 310691
Ion Ratio Lower Upper
114 100
63 27.1 19.7 29.5
88 18.5 14.4 21.6





#34
2-Butanone
Concen: 0.335 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

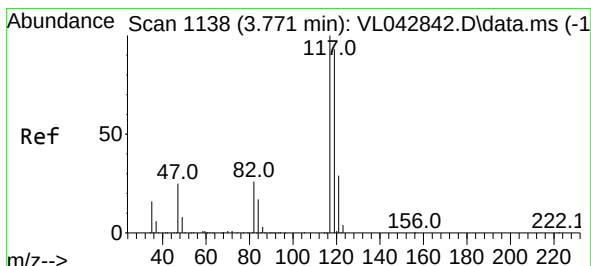
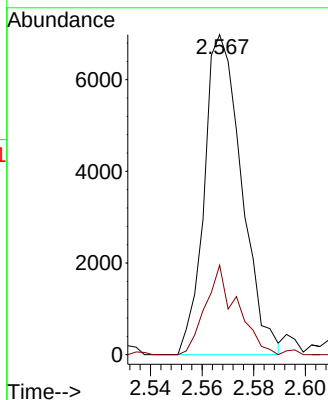
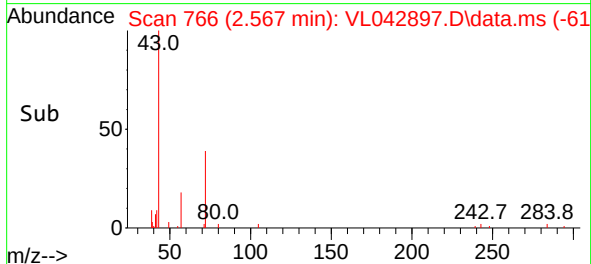
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



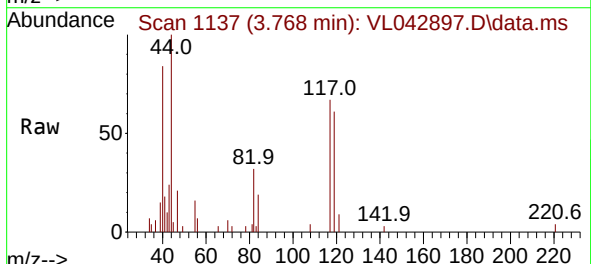
Tgt Ion: 43 Resp: 7029
Ion Ratio Lower Upper
43 100
72 24.3 18.6 28.0

Manual Integrations
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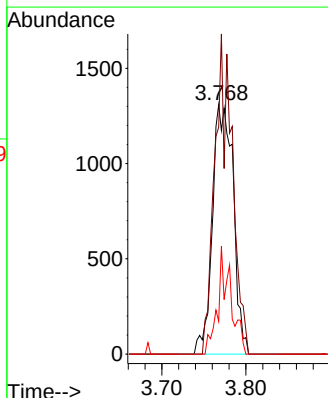
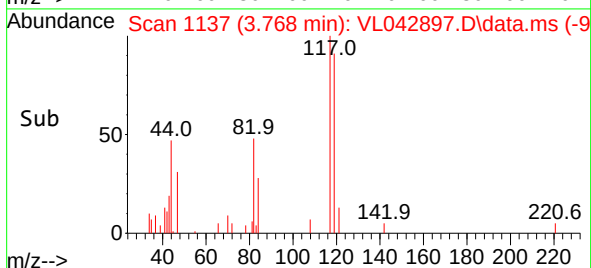
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

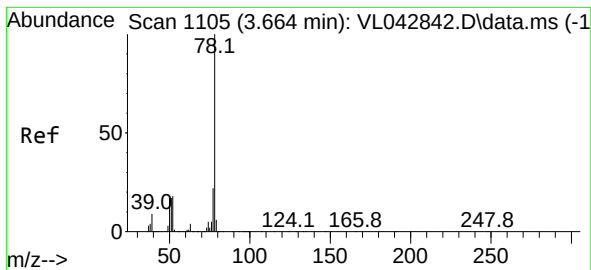


#35
Carbon Tetrachloride
Concen: 0.105 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. -0.003 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18



Tgt Ion:117 Resp: 2248
Ion Ratio Lower Upper
117 100
119 91.0 74.7 112.1
121 13.1 23.2 34.8#





#36

Benzene

Concen: 0.369 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. 0.003 min

Lab File: VL042897.D

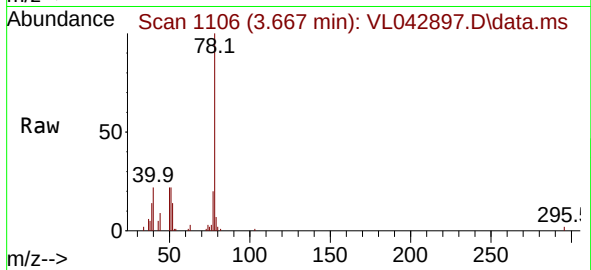
Acq: 04 Sep 2025 19:18

Instrument :

MSVOA_L

ClientSampleId :

OA1DUP

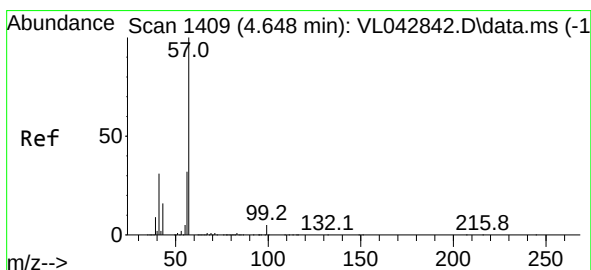
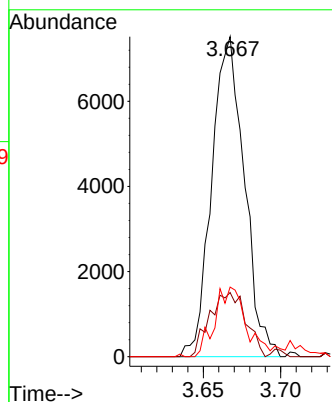
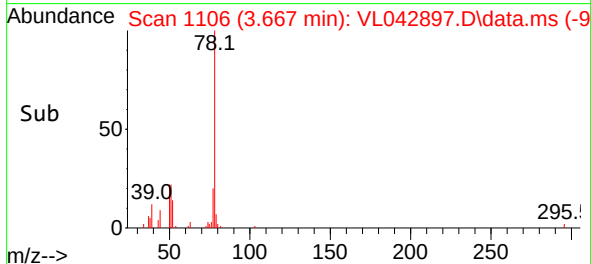


Tgt Ion: 78	Resp: 10979
Ion Ratio	Lower Upper
78 100	
77 20.1	17.7 26.5
50 21.0	13.9 20.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#44

2,2,4-Trimethylpentane

Concen: 0.868 ppbv m

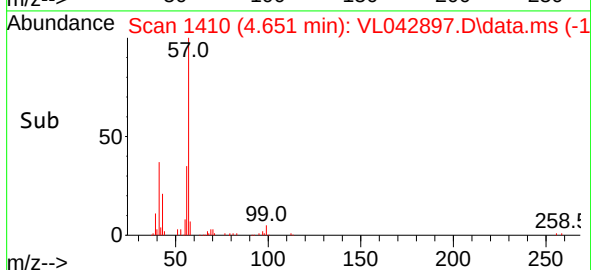
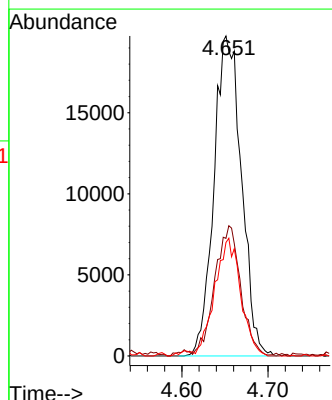
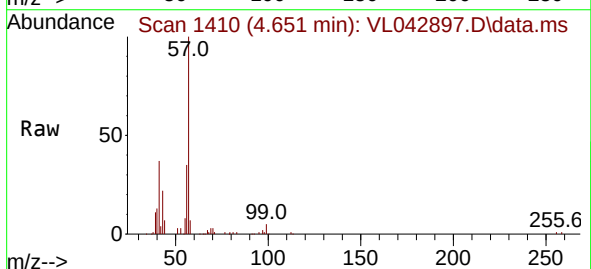
RT: 4.651 min Scan# 1410

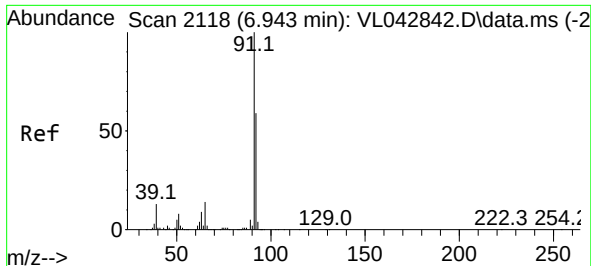
Delta R.T. 0.003 min

Lab File: VL042897.D

Acq: 04 Sep 2025 19:18

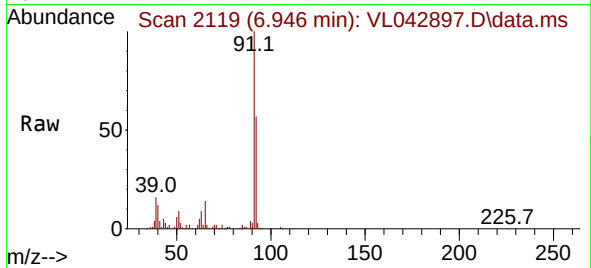
Tgt Ion: 57	Resp: 43809
Ion Ratio	Lower Upper
57 100	
41 39.5	24.8 37.2
56 35.5	25.5 38.3





#53
Toluene
Concen: 2.029 ppbv
RT: 6.946 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

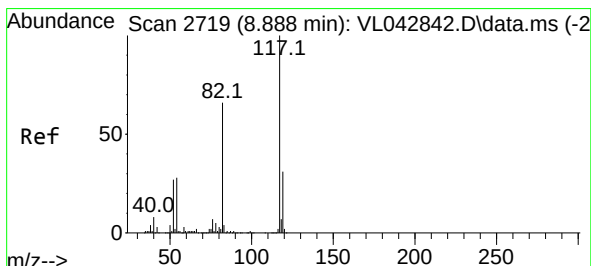
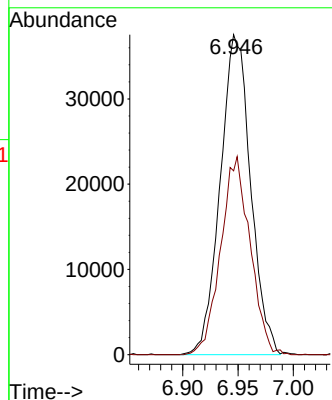
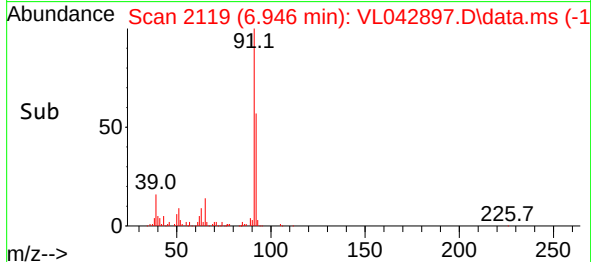
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion: 91 Resp: 71772
Ion Ratio Lower Upper
91 100
92 60.0 47.8 71.6

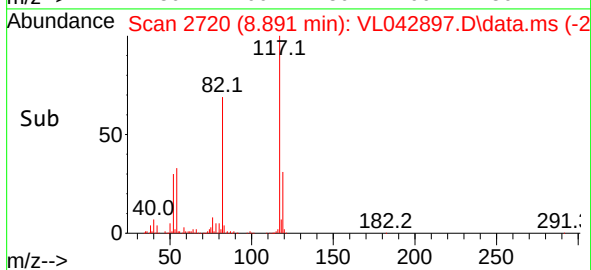
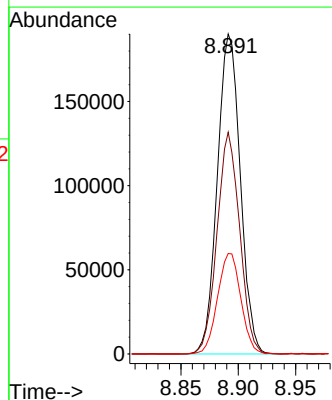
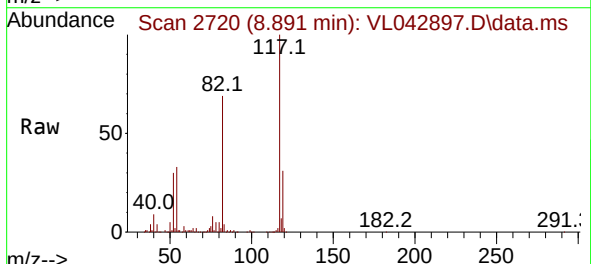
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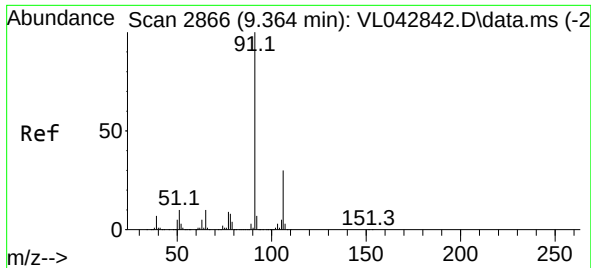
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.003 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

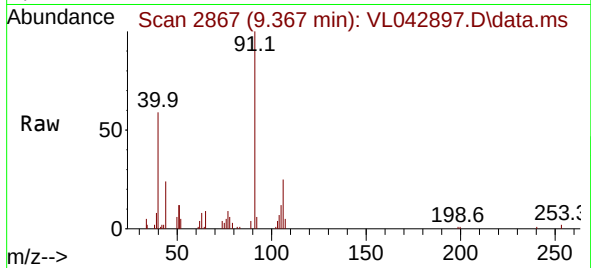
Tgt Ion:117 Resp: 265064
Ion Ratio Lower Upper
117 100
82 68.1 54.6 81.8
119 31.8 25.9 38.9





#58
Ethyl Benzene
Concen: 0.150 ppbv
RT: 9.367 min Scan# 2866
Delta R.T. 0.003 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

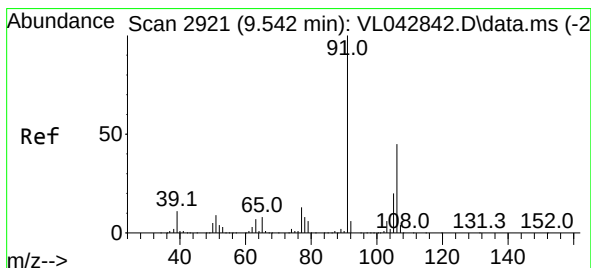
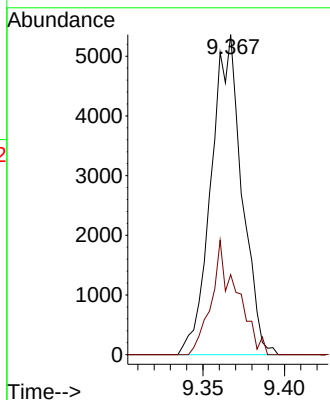
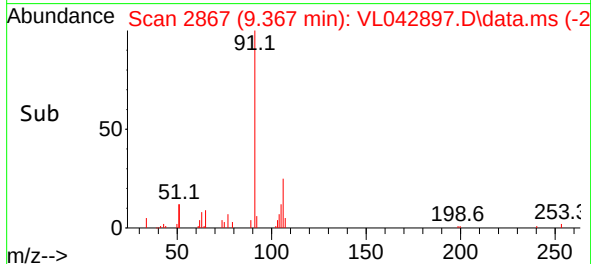
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion: 91 Resp: 703
Ion Ratio Lower Upper
91 100
106 25.0 23.9 35.9

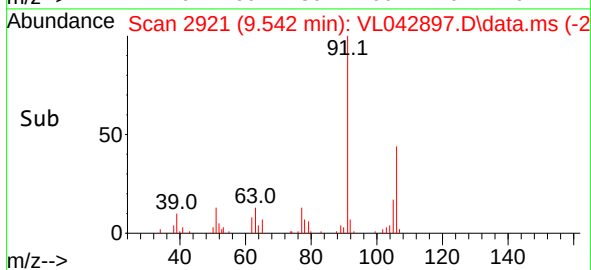
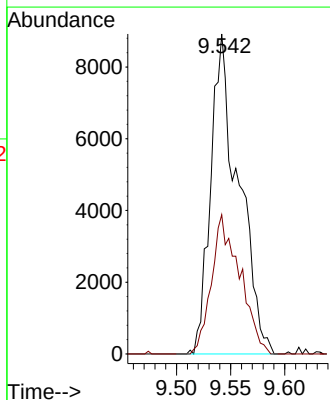
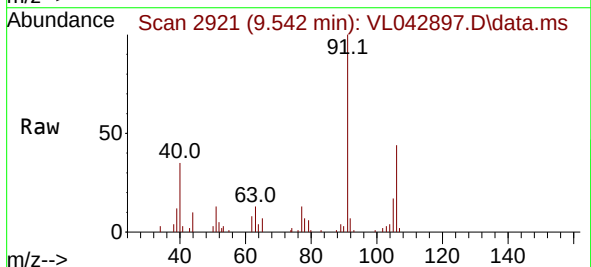
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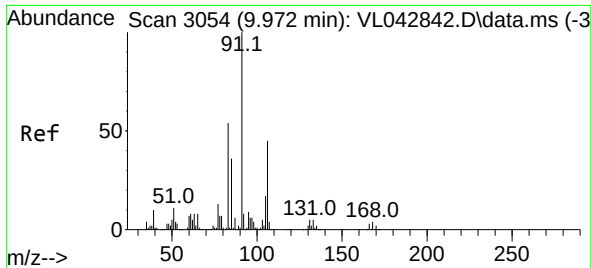
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#59
m/p-Xylene
Concen: 0.434 ppbv m
RT: 9.542 min Scan# 2921
Delta R.T. -0.000 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

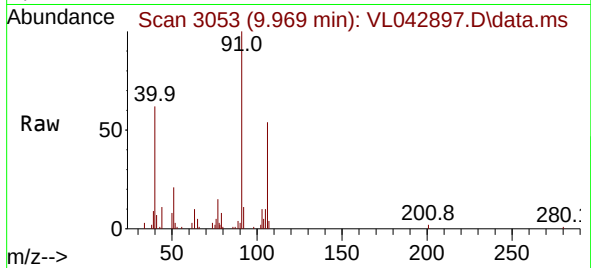
Tgt Ion: 91 Resp: 15926
Ion Ratio Lower Upper
91 100
106 44.4 0.0 0.0#





#60
o-Xylene
Concen: 0.168 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

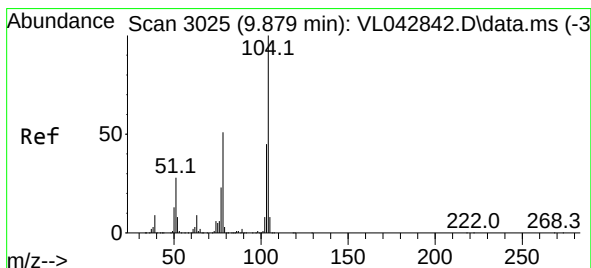
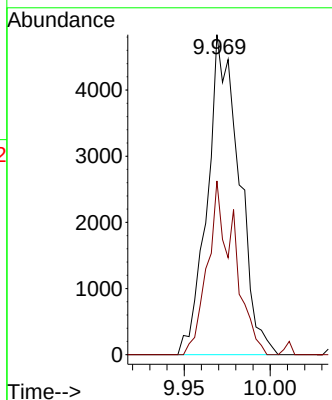
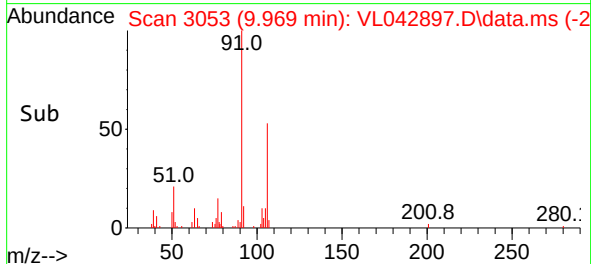
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion: 91 Resp: 6210
Ion Ratio Lower Upper
91 100
106 46.6 21.8 65.4

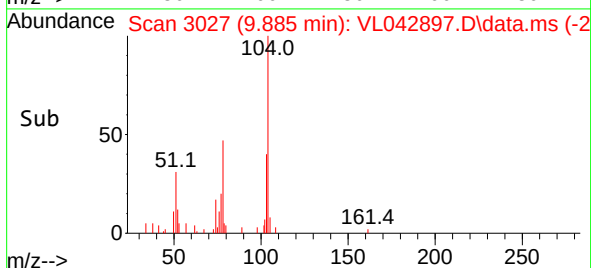
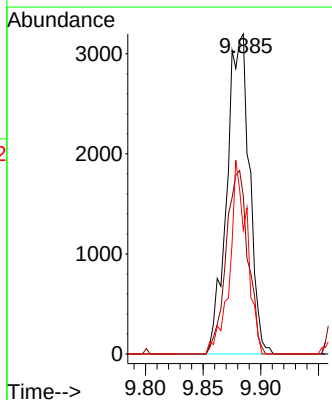
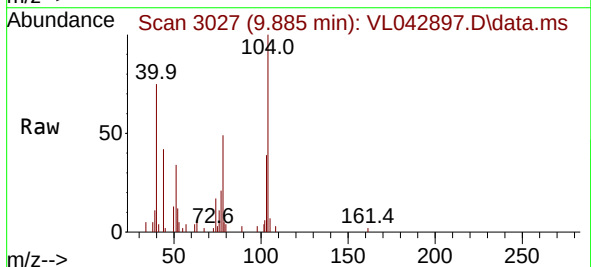
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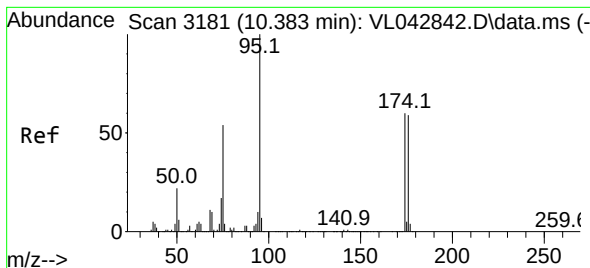
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#61
Styrene
Concen: 0.252 ppbv m
RT: 9.885 min Scan# 3027
Delta R.T. 0.006 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

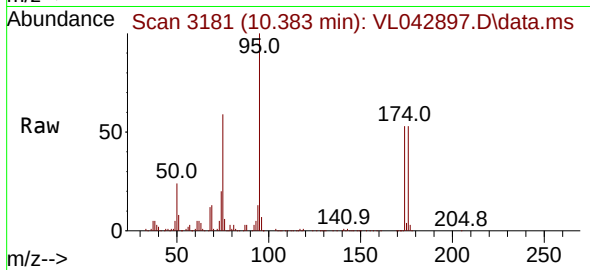
Tgt Ion:104 Resp: 4357
Ion Ratio Lower Upper
104 100
78 56.0 40.6 61.0
103 46.5 37.7 56.5





#68
1-Bromo-4-Fluorobenzene
Concen: 10.351 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.000 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

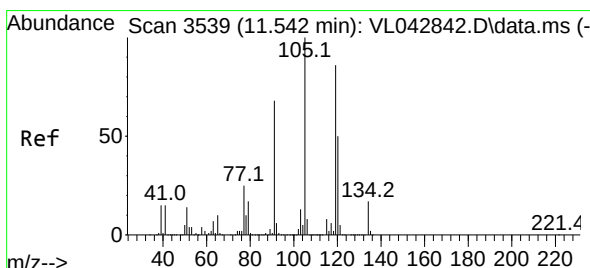
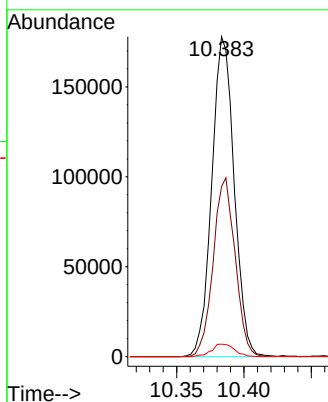
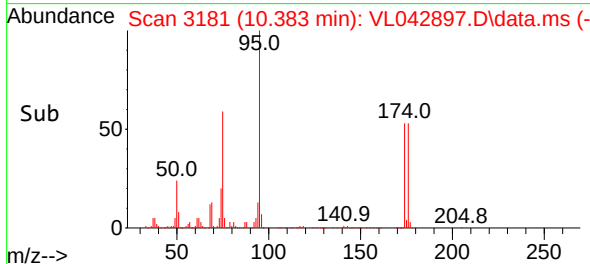
Instrument :
MSVOA_L
ClientSampleId :
OA1DUP



Tgt Ion: 95 Resp: 205770
Ion Ratio Lower Upper
95 100
174 54.8 48.4 72.6
175 4.1 3.8 5.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.149 ppbv m
RT: 11.542 min Scan# 3539
Delta R.T. -0.000 min
Lab File: VL042897.D
Acq: 04 Sep 2025 19:18

Tgt Ion:105 Resp: 6218
Ion Ratio Lower Upper
105 100
120 35.2 39.8 59.6#
91 21.6 54.2 81.4#
77 16.6 19.8 29.6#

