

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
 Data File : VL042675.D
 Acq On : 27 Jun 2025 12:02
 Operator : SY/MD
 Sample : Q2432-01DUP 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/30/2025
 Supervised By :Mahesh Dadoda 06/30/2025

Quant Time: Jun 27 23:03:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

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

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	117408	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	303958	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	275395	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 213965 10.364 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.600%

Target Compounds

						Qvalue
3) Chlorodifluoromethane	1.470	51	5599	0.282	ppbv	93
9) Propene	1.479	41	4713	0.589	ppbv	99
10) Heptane	4.965	43	10235m	0.454	ppbv	
13) Ethanol	1.719	45	1117m	1.171	ppbv	
15) Acetone	1.835	43	35334	2.498	ppbv	100
26) Hexane	2.823	57	41338	2.351	ppbv #	40
29) Chloroform	2.845	83	9648	0.422	ppbv	84
34) 2-Butanone	2.557	43	33814	1.560	ppbv	98
36) Benzene	3.654	78	8678	0.290	ppbv	94
38) Trichloroethene	4.545	130	628m	0.049	ppbv	
52) Tetrachloroethene	8.218	164	488485	43.674	ppbv	97
53) Toluene	6.927	91	20486	0.592	ppbv	100
59) m/p-Xylene	9.523	91	19478	0.530	ppbv	96
60) o-Xylene	9.956	91	9431	0.257	ppbv	95
74) 1,2,4-Trimethylbenzene	11.529	105	7448	0.177	ppbv #	67

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

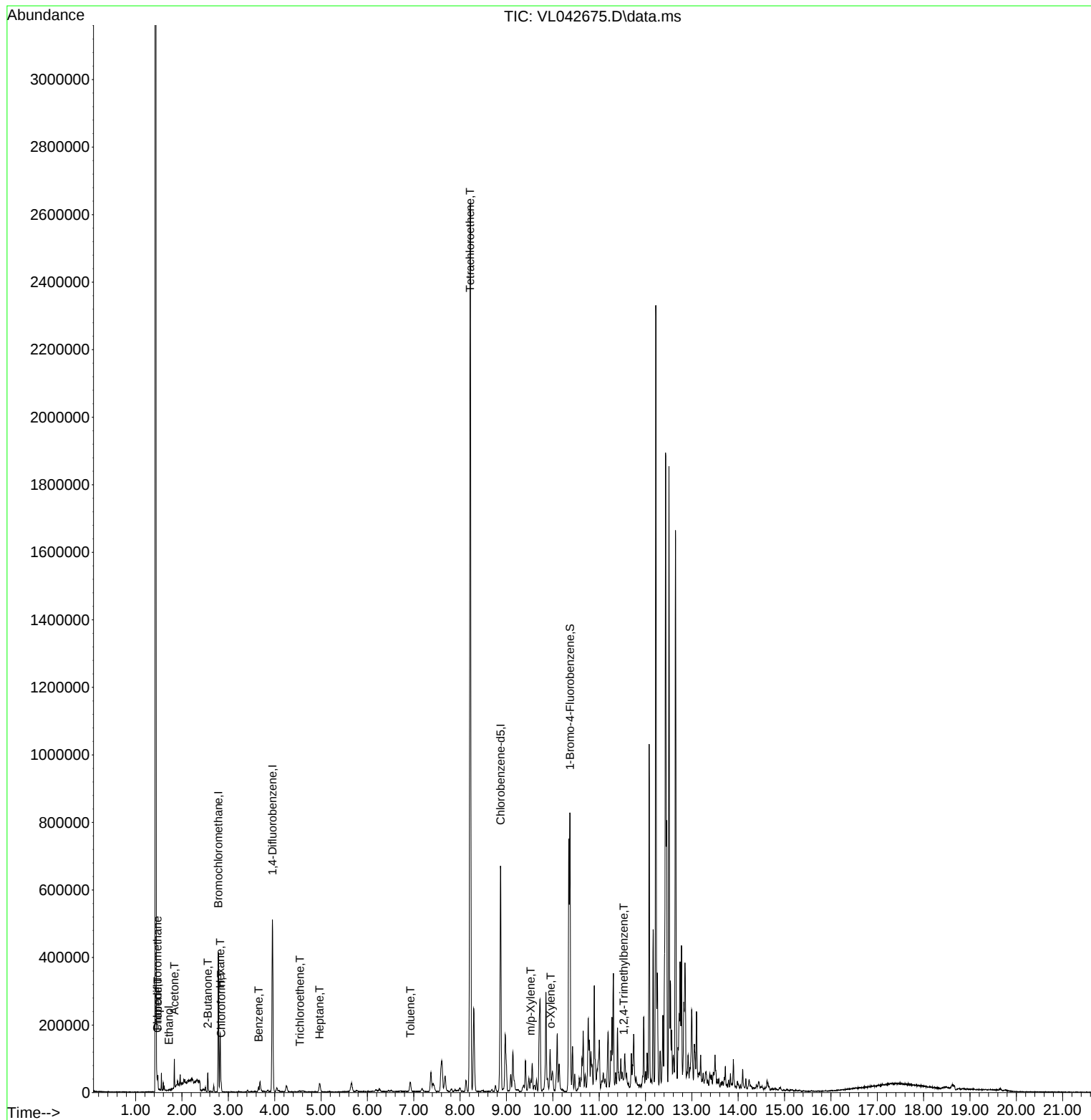
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062725\
Data File : VL042675.D
Acq On : 27 Jun 2025 12:02
Operator : SY/MD
Sample : Q2432-01DUP 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

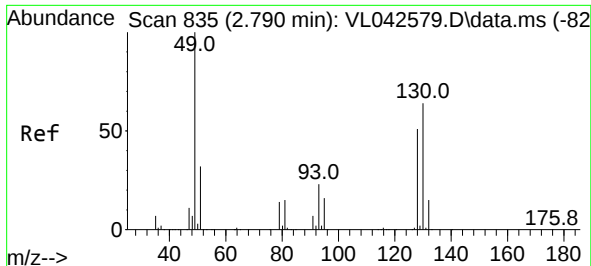
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Quant Time: Jun 27 23:03:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

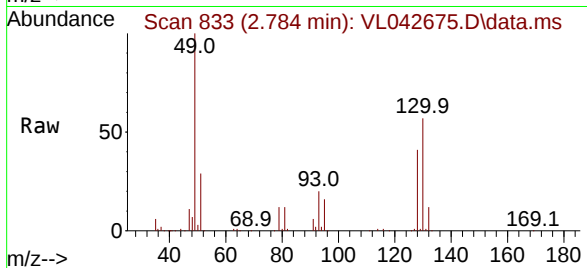
Reviewed By : Semsettin Yesilyurt 06/30/2025
Supervised By : Mahesh Dadoda 06/30/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. -0.006 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

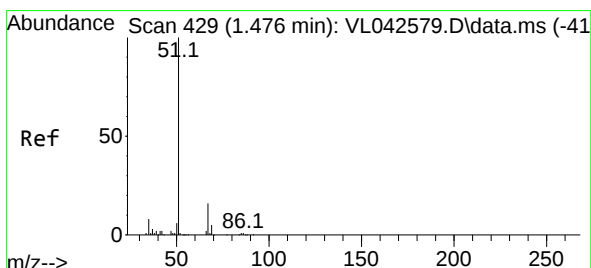
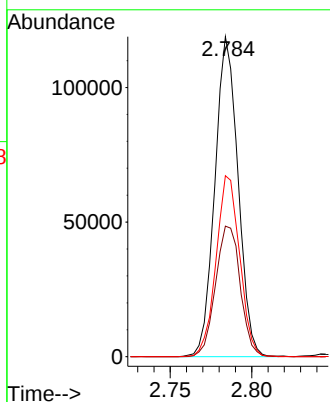
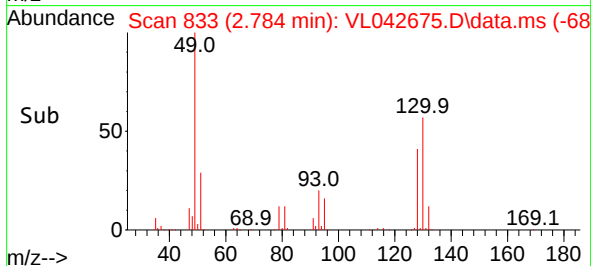
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 49 Resp: 117408
Ion Ratio Lower Upper
49 100
128 43.5 24.2 72.6
130 57.6 30.4 91.2

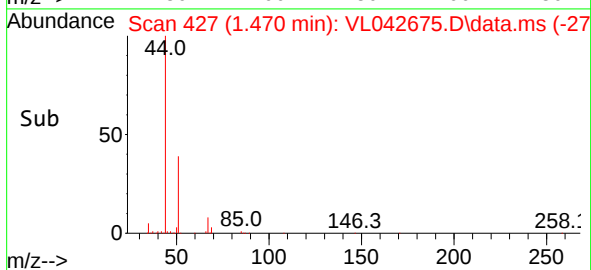
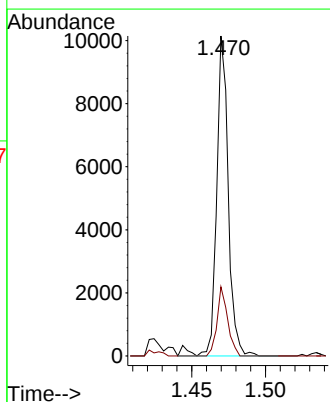
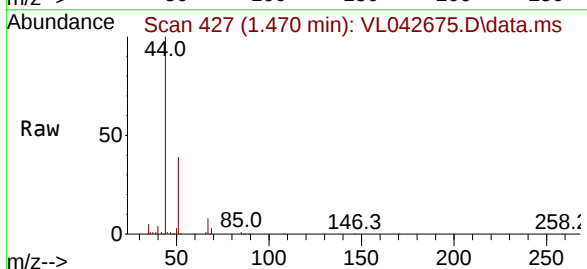
Manual Integrations
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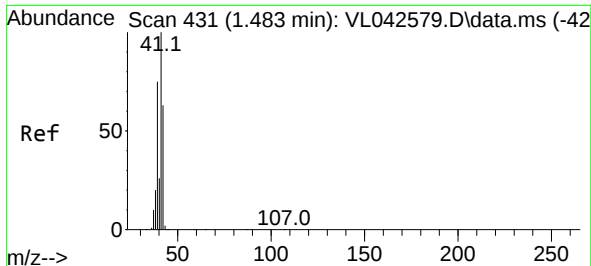
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#3
Chlorodifluoromethane
Concen: 0.282 ppbv
RT: 1.470 min Scan# 427
Delta R.T. -0.006 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

Tgt Ion: 51 Resp: 5599
Ion Ratio Lower Upper
51 100
67 19.6 13.4 20.2





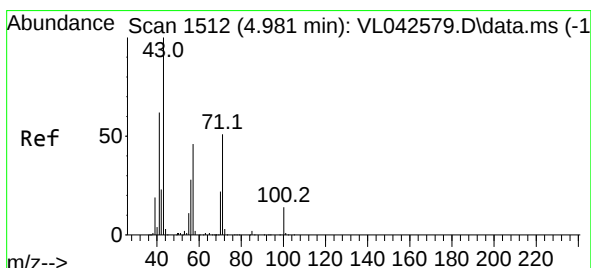
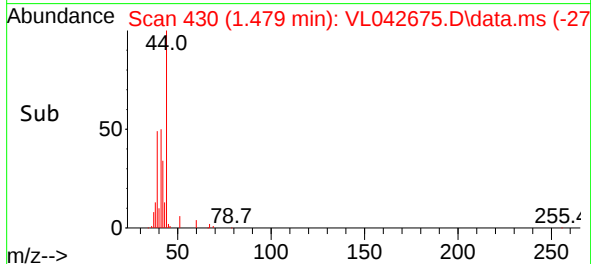
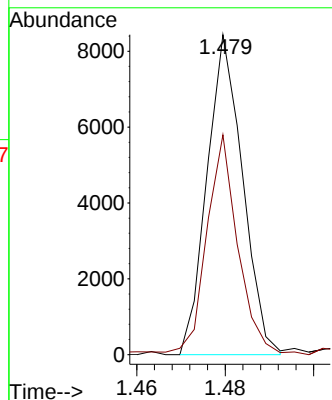
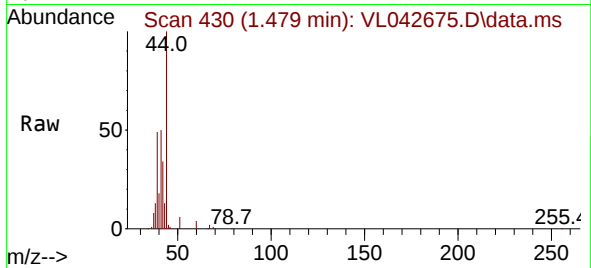
#9
 Propene
 Concen: 0.589 ppbv
 RT: 1.479 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042675.D
 Acq: 27 Jun 2025 12:02

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DUP

Tgt Ion: 41 Resp: 471
 Ion Ratio Lower Upper
 41 100
 42 66.2 53.3 79.9

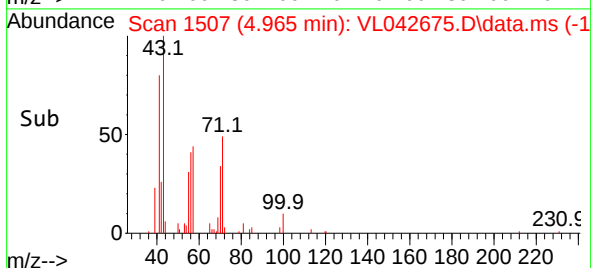
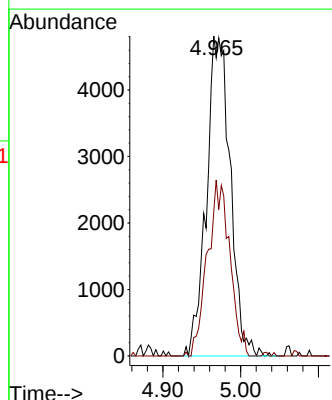
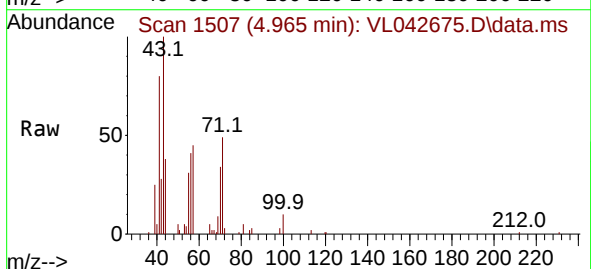
Manual Integrations
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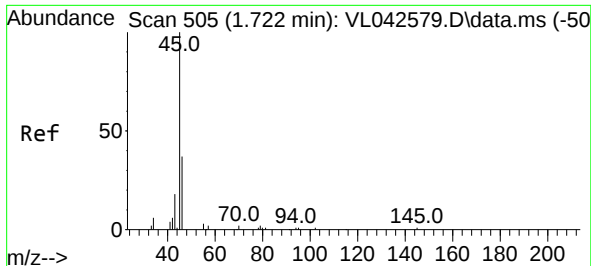
Reviewed By :Semsettin Yesilyurt 06/30/2025
 Supervised By :Mahesh Dadoda 06/30/2025



#10
 Heptane
 Concen: 0.454 ppbv m
 RT: 4.965 min Scan# 1507
 Delta R.T. -0.016 min
 Lab File: VL042675.D
 Acq: 27 Jun 2025 12:02

Tgt Ion: 43 Resp: 10235
 Ion Ratio Lower Upper
 43 100
 57 51.5 38.9 58.3





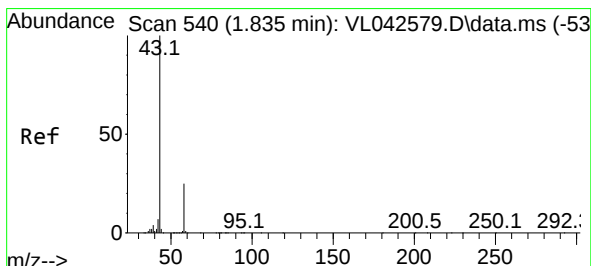
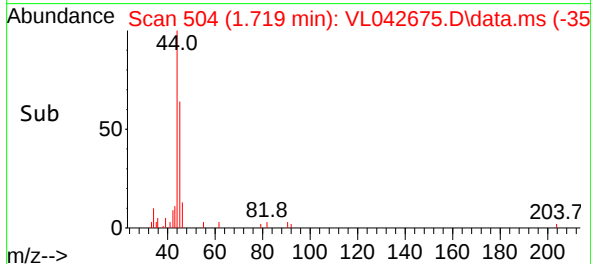
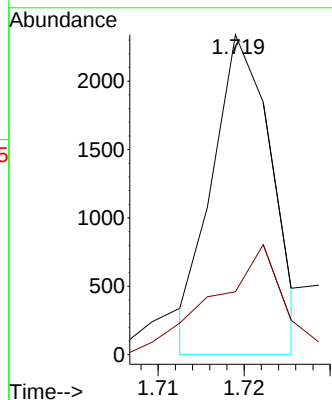
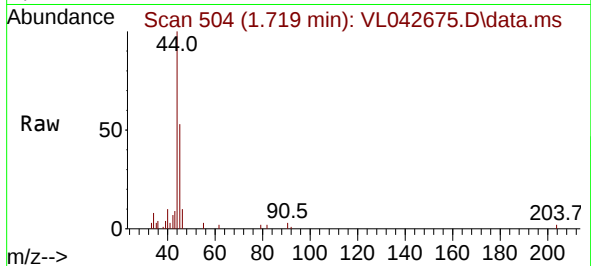
#13
Ethanol
Concen: 1.171 ppbv m
RT: 1.719 min Scan# 505
Delta R.T. -0.003 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 45 Resp: 111
Ion Ratio Lower Upper
45 100
46 22081.8 14.5 58

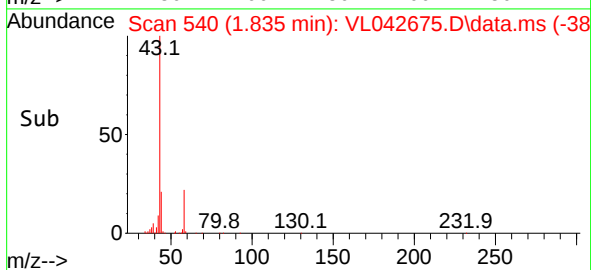
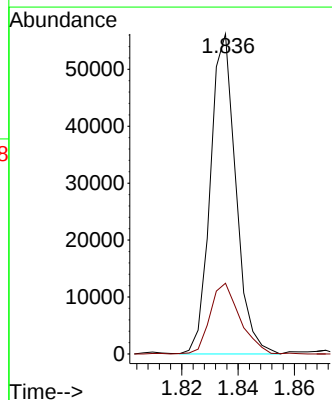
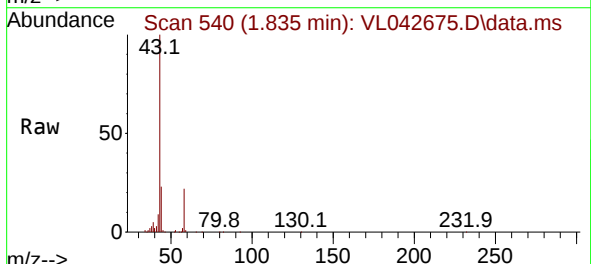
Manual Integrations
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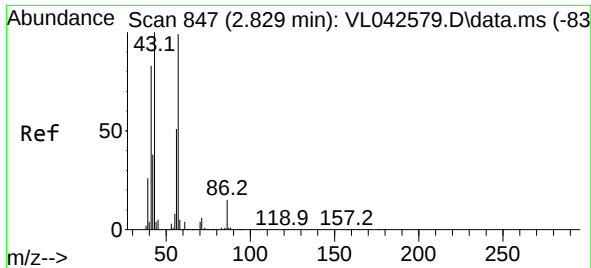
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#15
Acetone
Concen: 2.498 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

Tgt Ion: 43 Resp: 35334
Ion Ratio Lower Upper
43 100
58 26.0 21.0 31.4





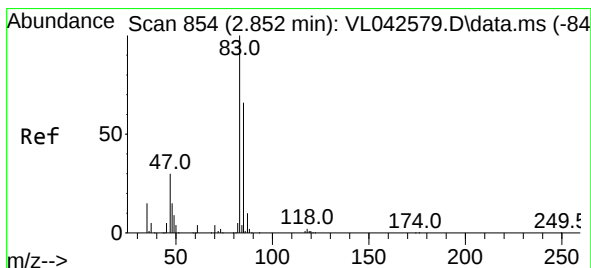
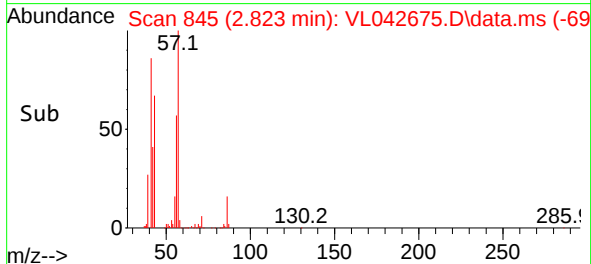
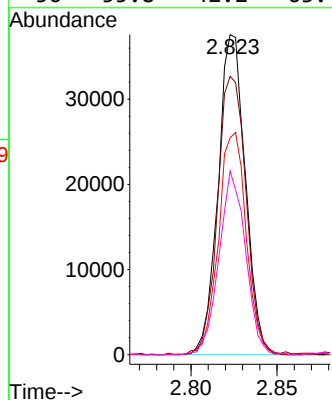
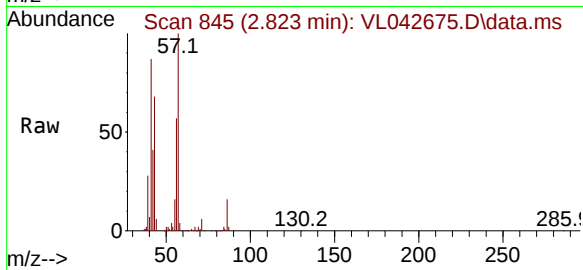
#26
Hexane
Concen: 2.351 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.006 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion: 57 Resp: 41338
Ion Ratio Lower Upper
57 100
41 91.2 70.6 106.0
43 70.8 181.1 271.7
56 55.8 42.2 63.4

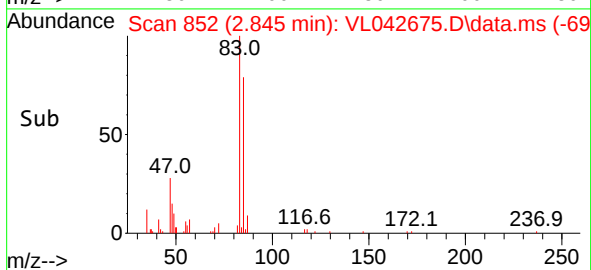
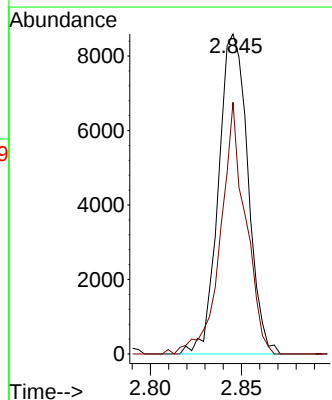
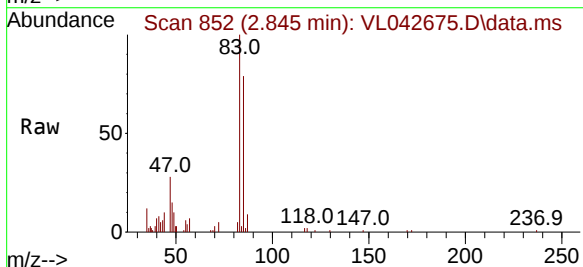
Manual Integrations
APPROVED

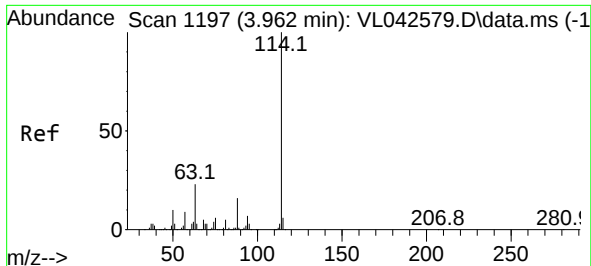
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#29
Chloroform
Concen: 0.422 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.006 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

Tgt Ion: 83 Resp: 9648
Ion Ratio Lower Upper
83 100
85 78.6 52.8 79.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.010 min

Lab File: VL042675.D

Acq: 27 Jun 2025 12:02

Instrument :

MSVOA_L

ClientSampleId :

SV1DUP

Tgt Ion:114 Resp: 303958

Ion Ratio Lower Upper

114 100

63 24.8 19.0 28.6

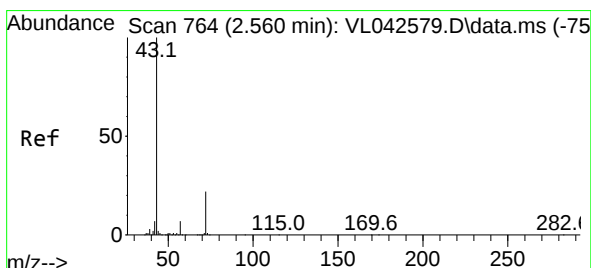
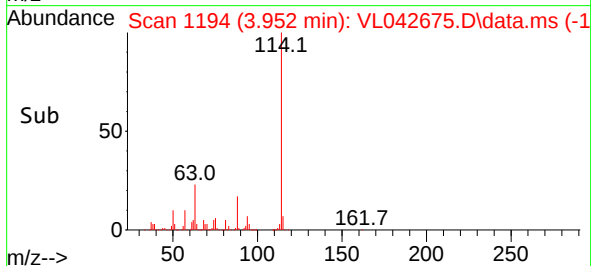
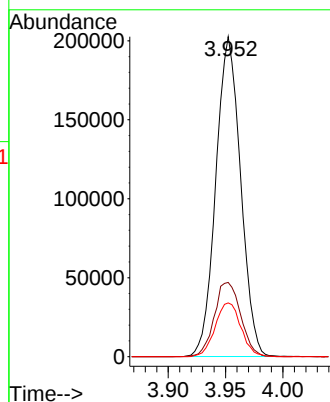
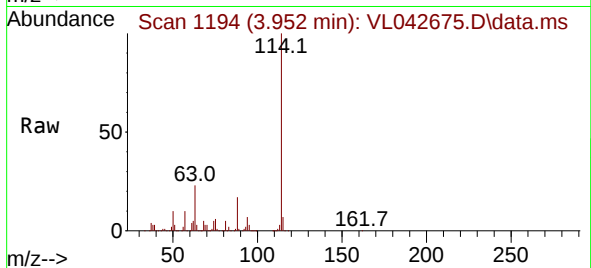
88 17.5 13.6 20.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 06/30/2025

Supervised By :Mahesh Dadoda 06/30/2025



#34

2-Butanone

Concen: 1.560 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.003 min

Lab File: VL042675.D

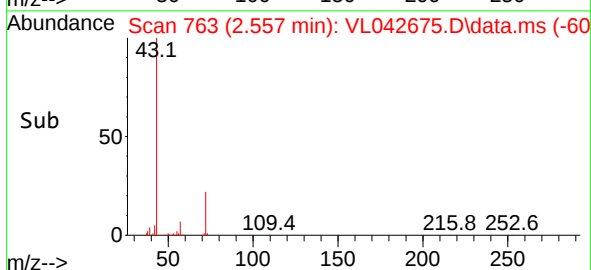
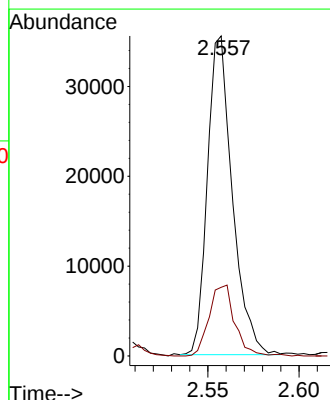
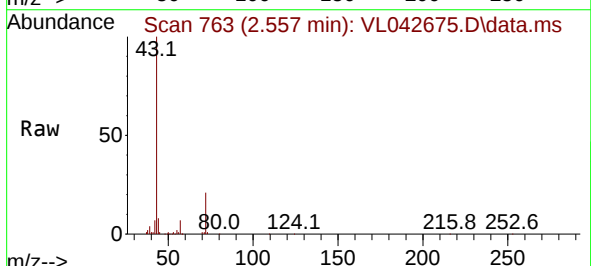
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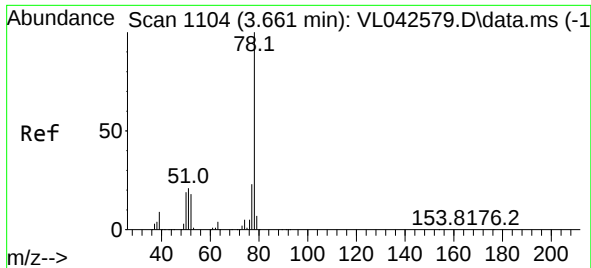
Tgt Ion: 43 Resp: 33814

Ion Ratio Lower Upper

43 100

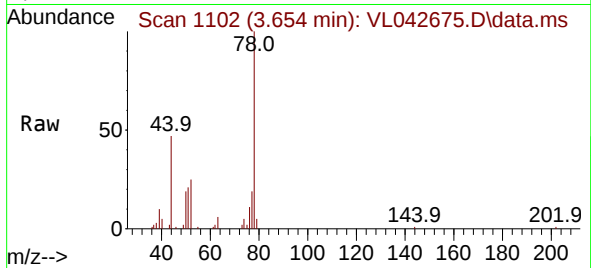
72 23.0 17.7 26.5





#36
Benzene
Concen: 0.290 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.006 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

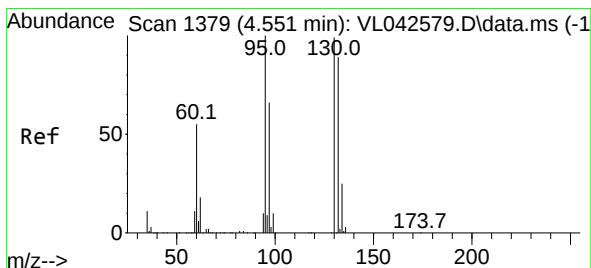
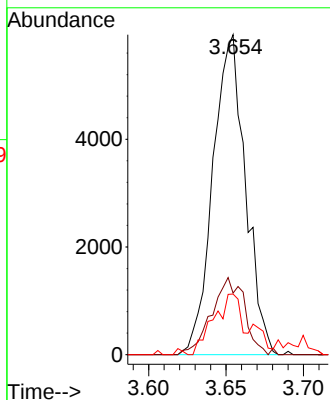
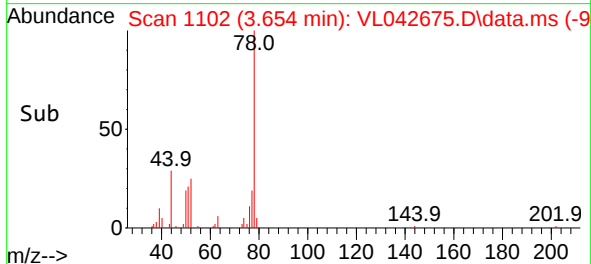
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion: 78 Resp: 8678
Ion Ratio Lower Upper
78 100
77 19.2 18.2 27.2
50 17.0 15.2 22.8

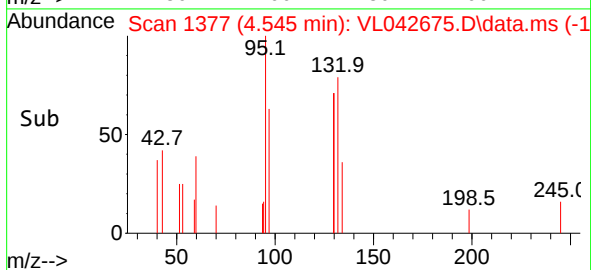
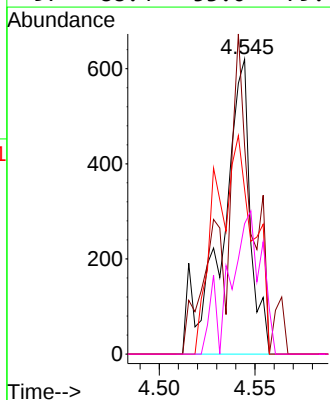
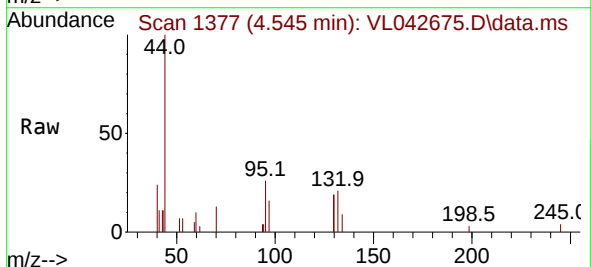
Manual Integrations
APPROVED

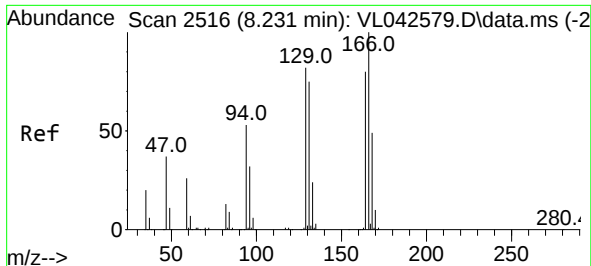
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#38
Trichloroethene
Concen: 0.049 ppbv m
RT: 4.545 min Scan# 1377
Delta R.T. -0.006 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

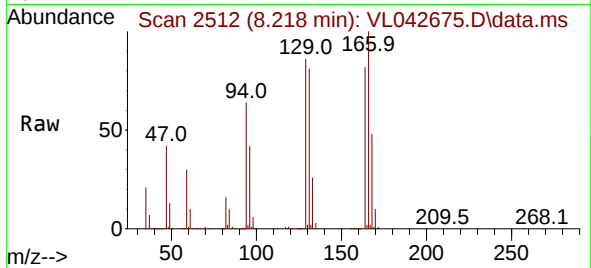
Tgt Ion:130 Resp: 628
Ion Ratio Lower Upper
130 100
95 141.3 80.6 121.0#
132 111.6 71.8 107.6#
97 88.4 53.0 79.4#





#52
Tetrachloroethene
Concen: 43.674 ppbv
RT: 8.218 min Scan# 2112
Delta R.T. -0.013 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

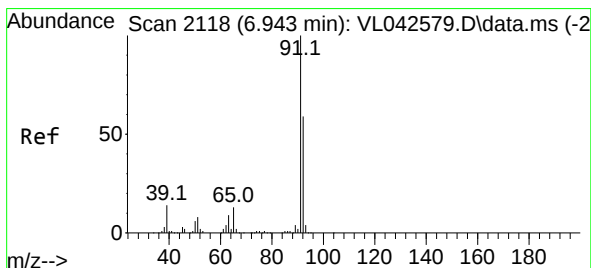
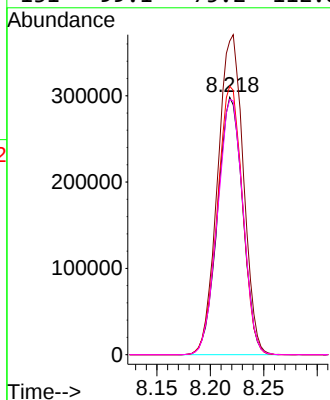
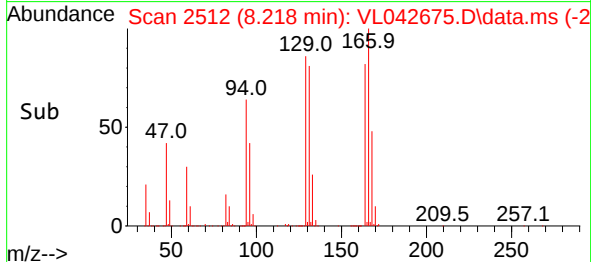
Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion:164 Resp: 48848
Ion Ratio Lower Upper
164 100
166 121.8 100.0 150.0
129 104.3 82.2 123.4
131 99.1 75.2 112.8

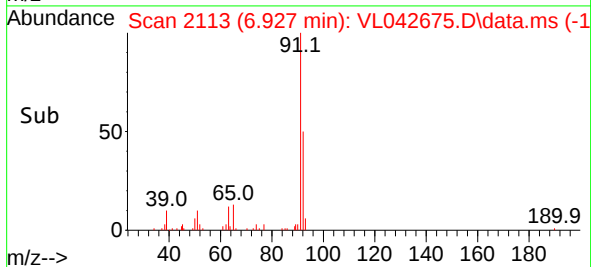
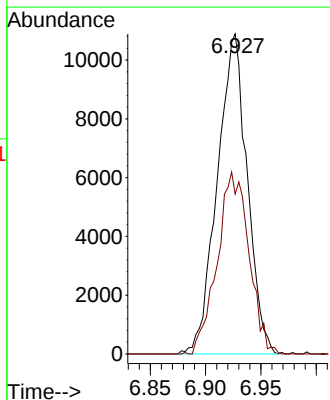
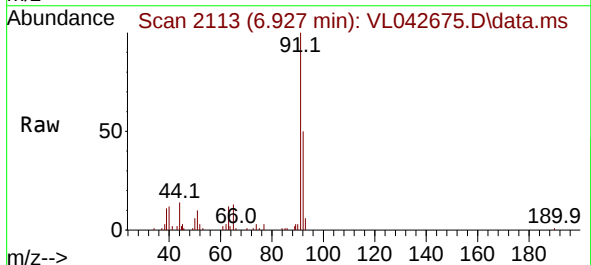
Manual Integrations
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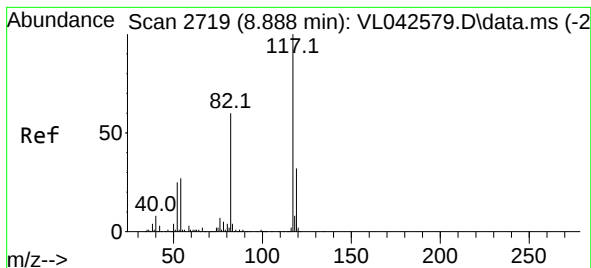
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#53
Toluene
Concen: 0.592 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.016 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

Tgt Ion: 91 Resp: 20486
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.4





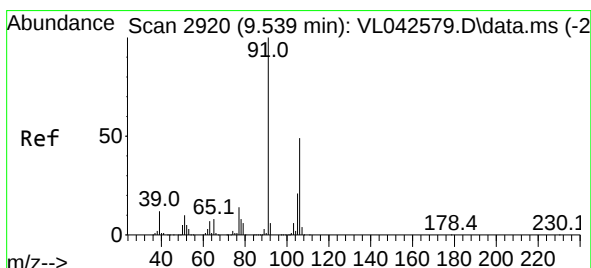
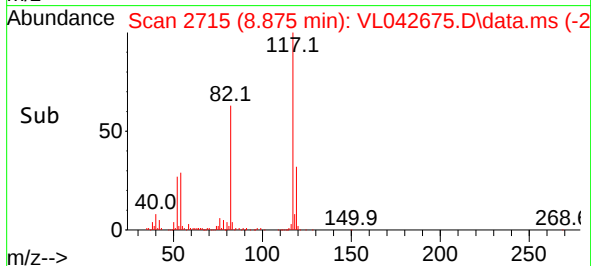
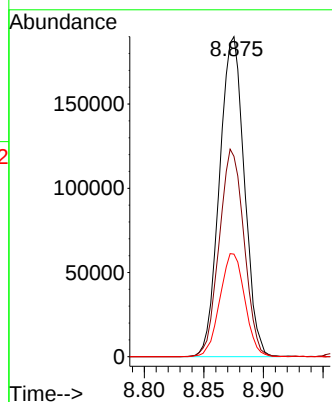
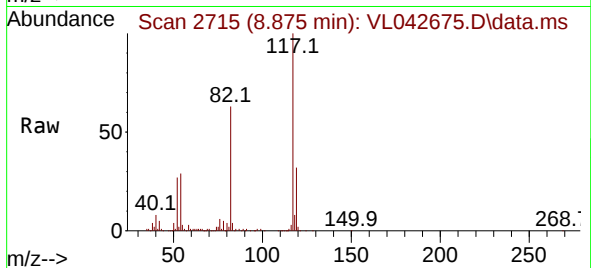
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2115
Delta R.T. -0.013 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP

Tgt Ion:117 Resp: 27539
Ion Ratio Lower Upper
117 100
82 65.0 51.2 76.8
119 32.4 26.3 39.5

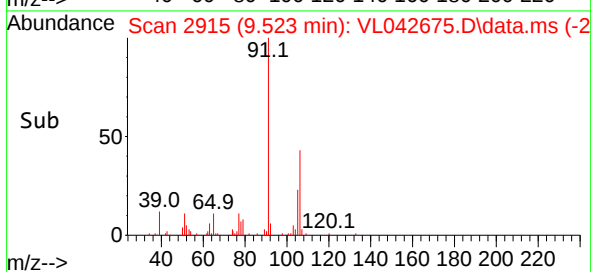
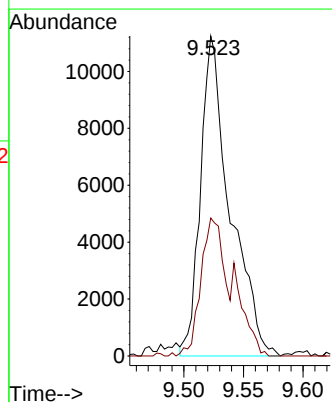
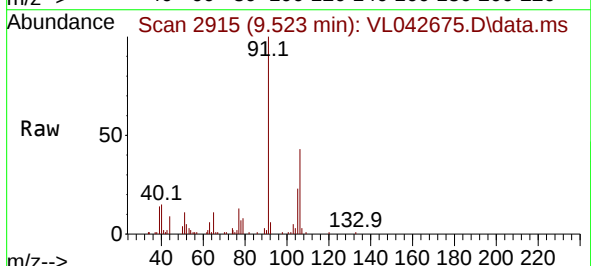
Manual Integrations
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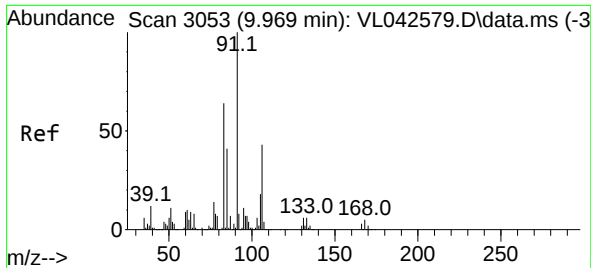
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#59
m/p-Xylene
Concen: 0.530 ppbv
RT: 9.523 min Scan# 2915
Delta R.T. -0.016 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

Tgt Ion: 91 Resp: 19478
Ion Ratio Lower Upper
91 100
106 45.8 38.8 58.2





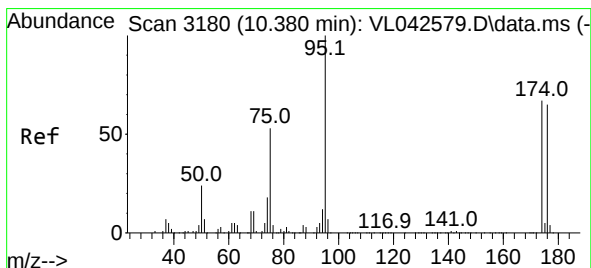
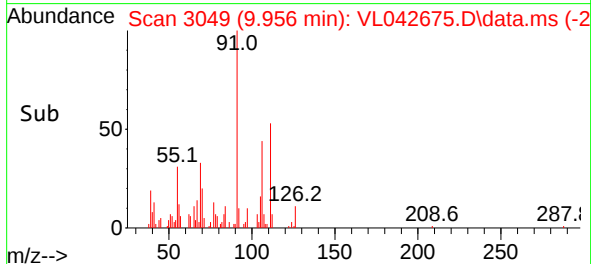
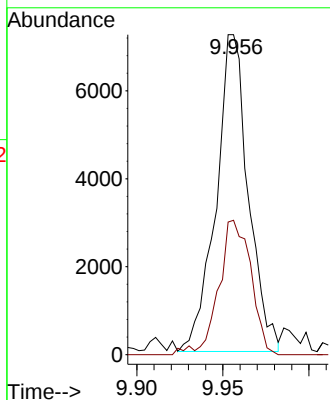
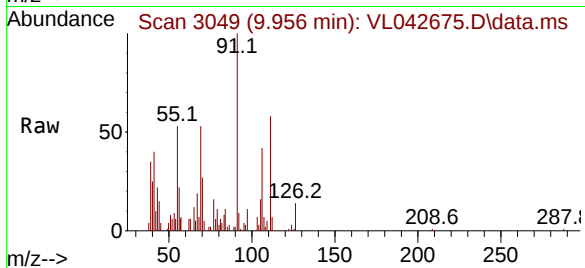
#60
o-Xylene
Concen: 0.257 ppbv
RT: 9.956 min Scan# 3053
Delta R.T. -0.013 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

Instrument : MSVOA_L
ClientSampleId : SV1DUP

Tgt Ion: 91 Resp: 943
Ion Ratio Lower Upper
91 100
106 42.3 22.9 68.5

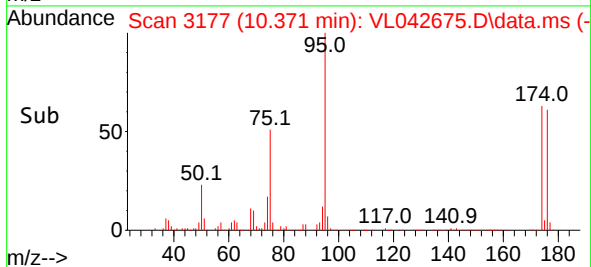
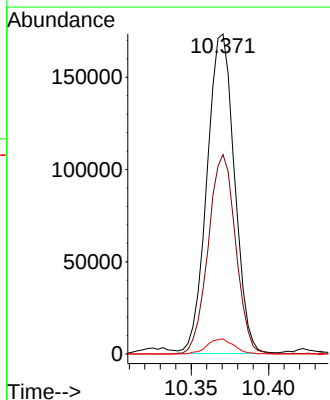
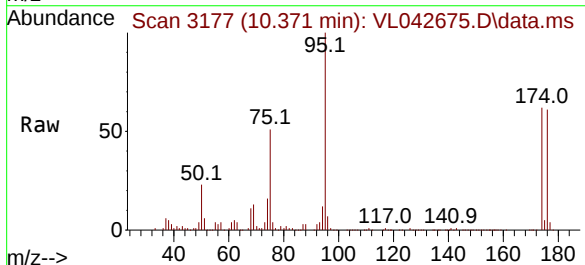
Manual Integrations
APPROVED

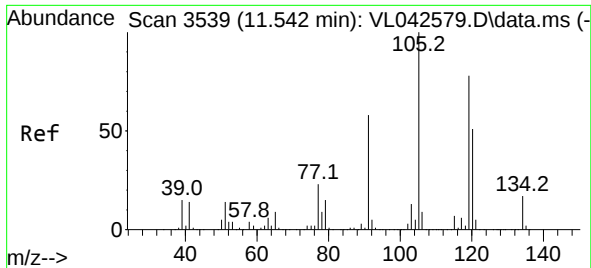
Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.364 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.010 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

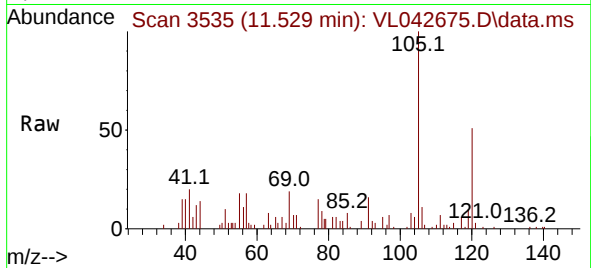
Tgt Ion: 95 Resp: 213965
Ion Ratio Lower Upper
95 100
174 62.3 53.1 79.7
175 4.7 4.2 6.2





#74
1,2,4-Trimethylbenzene
Concen: 0.177 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.013 min
Lab File: VL042675.D
Acq: 27 Jun 2025 12:02

Instrument :
MSVOA_L
ClientSampleId :
SV1DUP



Tgt Ion:	105	Resp:	7448
Ion	Ratio	Lower	Upper
105	100		
120	50.3	40.8	61.2
91	10.9	46.8	70.2
77	11.4	18.2	27.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/30/2025
Supervised By :Mahesh Dadoda 06/30/2025

