

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043164.D
 Acq On : 06 Nov 2025 13:17
 Operator : SY/MD
 Sample : Q3557-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 141-IA-1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/07/2025
 Supervised By :Mahesh Dadoda 11/10/2025

Quant Time: Nov 07 00:21:42 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri 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	2.790	49	115366	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	342427	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	290452	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	237353	10.513	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	24649	1.503	ppbv	96
3) Chlorodifluoromethane	1.476	51	4525m	0.255	ppbv	
4) Chloromethane	1.534	50	2908	0.448	ppbv	96
9) Propene	1.489	41	18904m	2.402	ppbv	
10) Heptane	4.985	43	4298m	0.190	ppbv	
11) Trichlorofluoromethane	1.884	101	5366	0.334	ppbv	94
13) Ethanol	1.722	45	76195	26.173	ppbv	100
15) Acetone	1.839	43	138148	8.884	ppbv	92
19) Isopropyl Alcohol	1.887	45	9578	0.989	ppbv #	1
20) Methylene Chloride	2.065	84	97396	15.846	ppbv	93
26) Hexane	2.832	57	122149	6.875	ppbv #	42
30) Cyclohexane	3.865	84	3316	0.214	ppbv #	79
34) 2-Butanone	2.560	43	34716	1.508	ppbv	99
35) Carbon Tetrachloride	3.768	117	1853m	0.075	ppbv	
36) Benzene	3.661	78	12305	0.382	ppbv	98
44) 2,2,4-Trimethylpentane	4.641	57	17870	0.328	ppbv #	78
51) 2-Hexanone	7.441	43	11366m	0.477	ppbv	
53) Toluene	6.936	91	22705	0.593	ppbv	97
58) Ethyl Benzene	9.360	91	5488m	0.110	ppbv	
59) m/p-Xylene	9.535	91	15295	0.385	ppbv	99
60) o-Xylene	9.969	91	5758	0.147	ppbv	94
74) 1,2,4-Trimethylbenzene	11.539	105	5751	0.129	ppbv #	55
79) Naphthalene	13.516	128	6216m	0.133	ppbv	

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

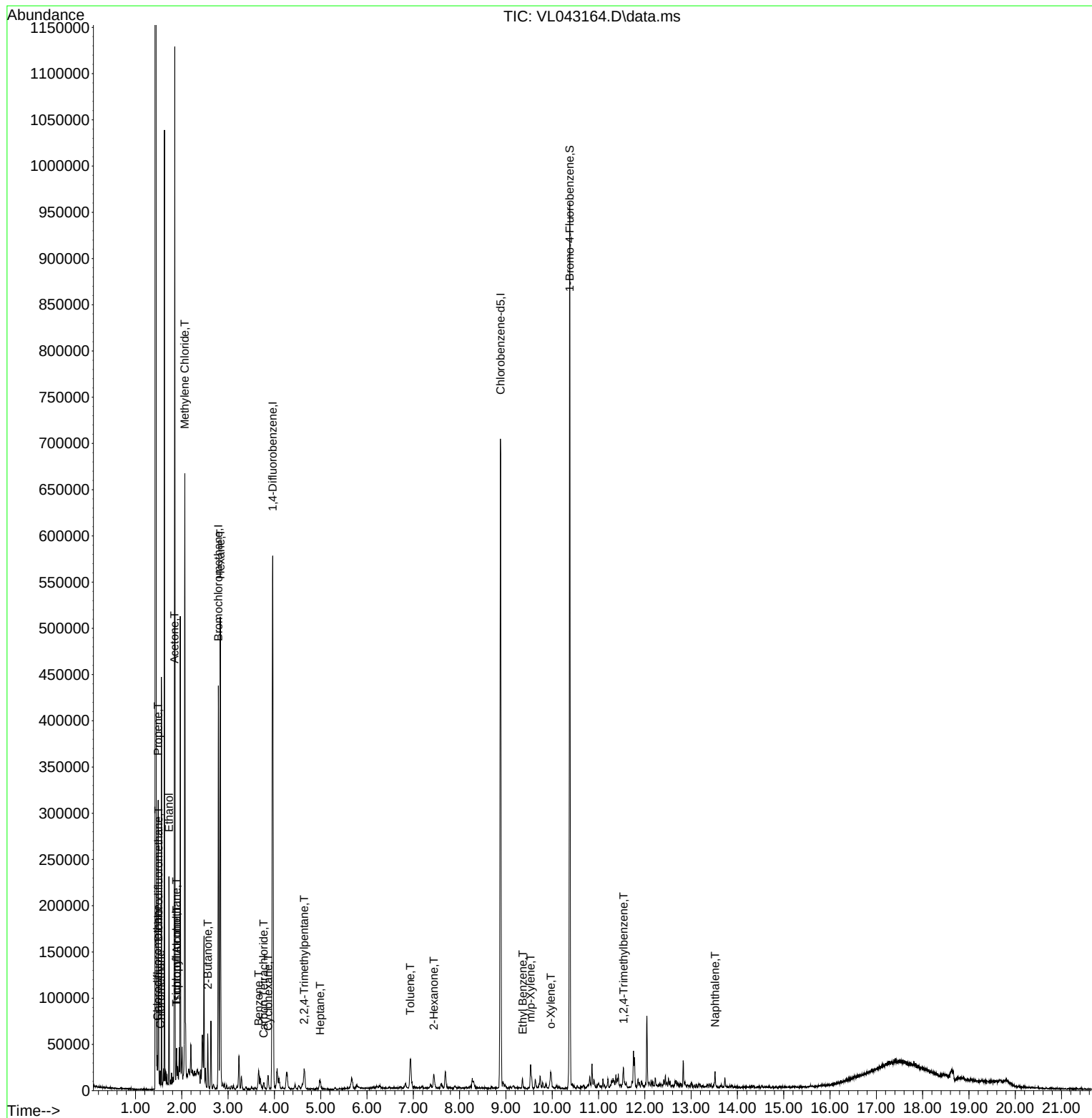
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
Data File : VL043164.D
Acq On : 06 Nov 2025 13:17
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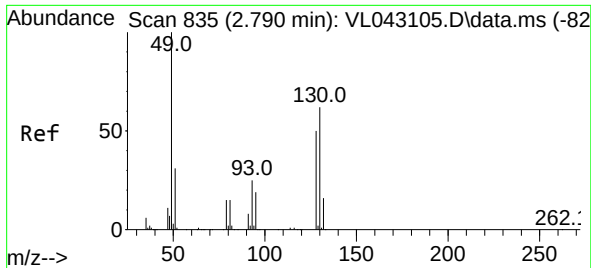
Instrument :
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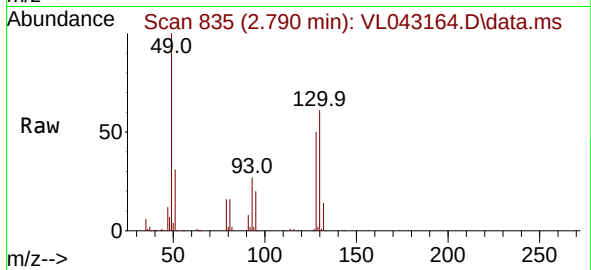
Quant Time: Nov 07 00:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

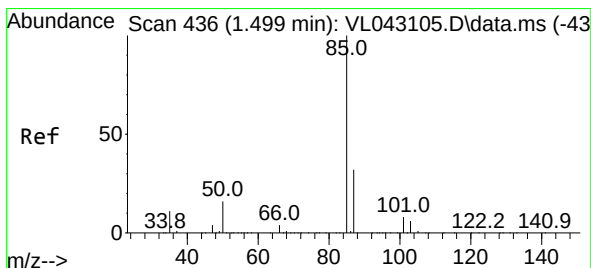
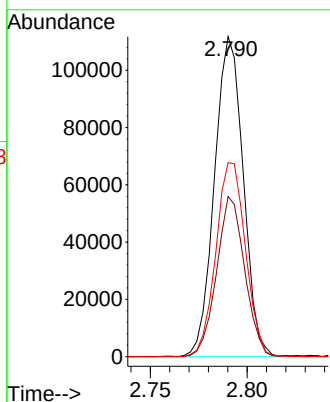
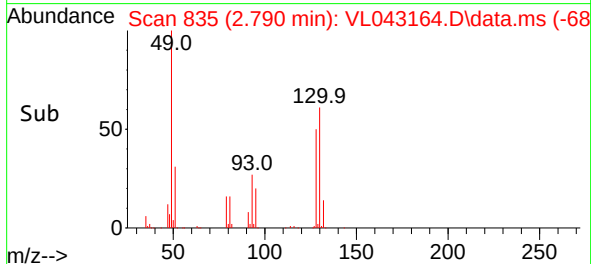
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



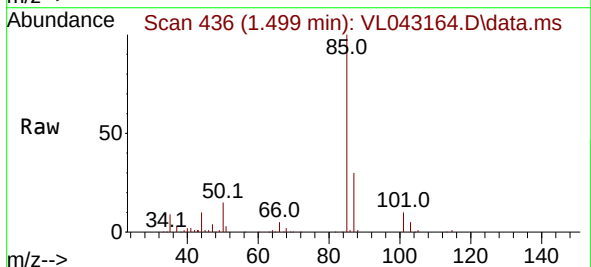
Tgt Ion: 49 Resp: 115360
Ion Ratio Lower Upper
49 100
128 48.9 24.4 73.4
130 62.7 31.0 93.0

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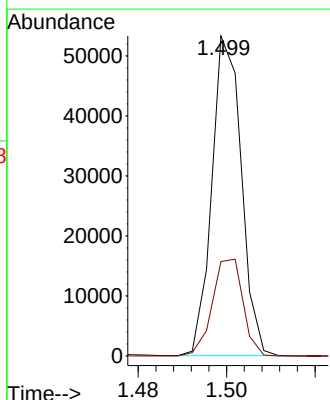
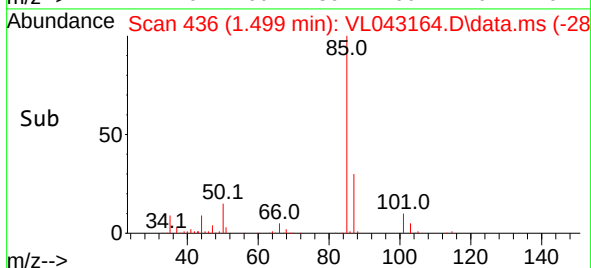
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

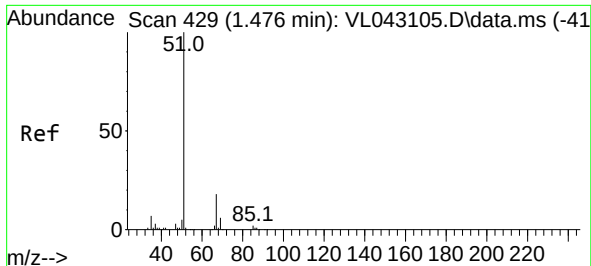


#2
Dichlorodifluoromethane
Concen: 1.503 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17



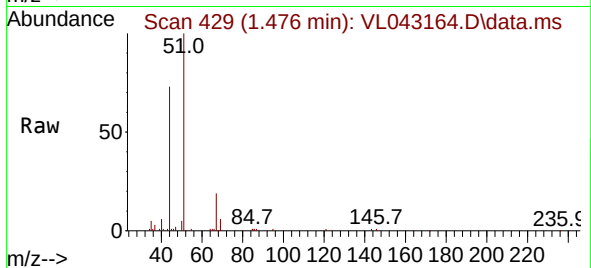
Tgt Ion: 85 Resp: 24649
Ion Ratio Lower Upper
85 100
87 29.5 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.255 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

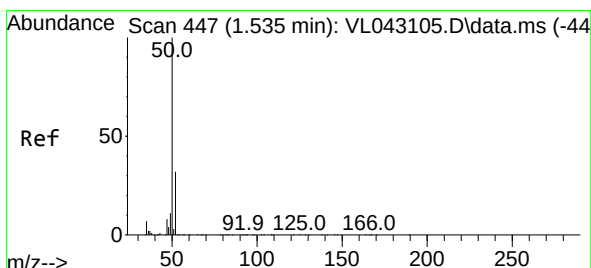
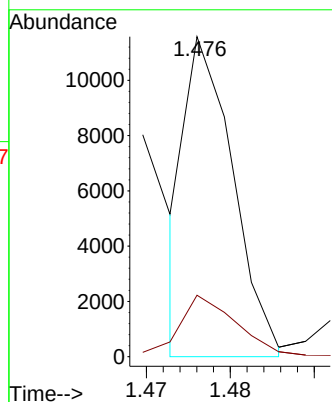
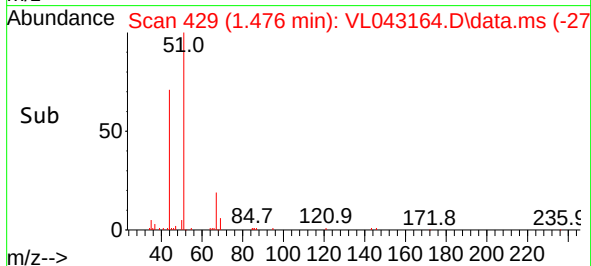
Instrument :
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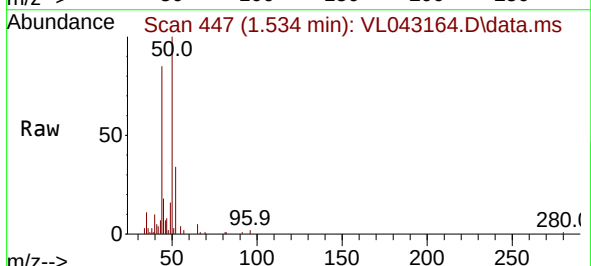
Tgt Ion: 51 Resp: 4529
Ion Ratio Lower Upper
51 100
67 24.2 15.1 22.7

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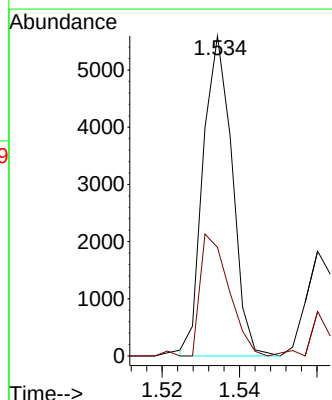
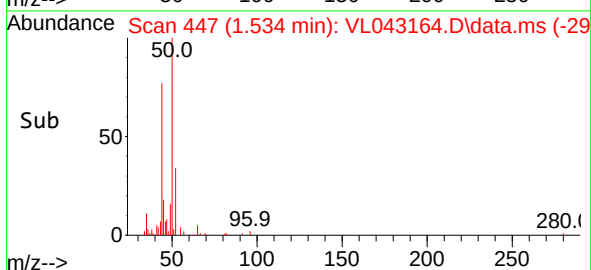
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

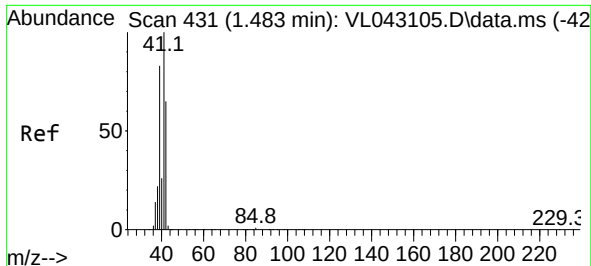


#4
Chloromethane
Concen: 0.448 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17



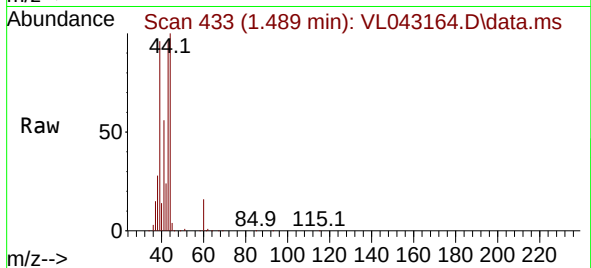
Tgt Ion: 50 Resp: 2908
Ion Ratio Lower Upper
50 100
52 33.9 25.2 37.8





#9
Propene
Concen: 2.402 ppbv m
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

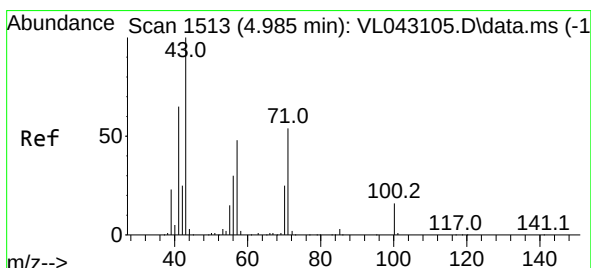
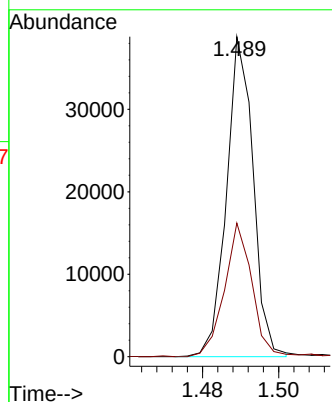
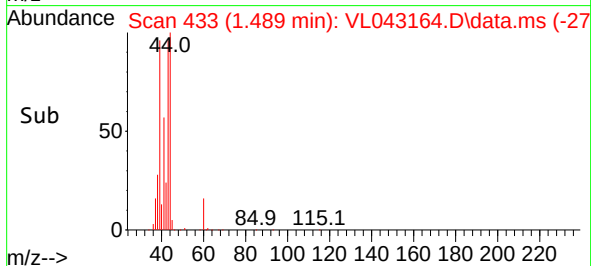
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion: 41 Resp: 18904
Ion Ratio Lower Upper
41 100
42 168.0 55.1 82.75

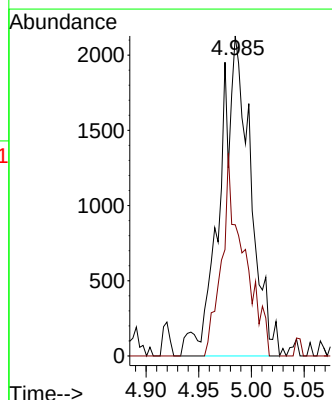
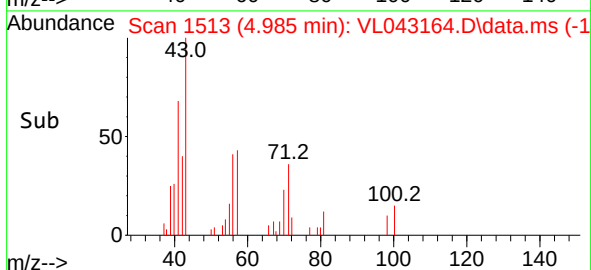
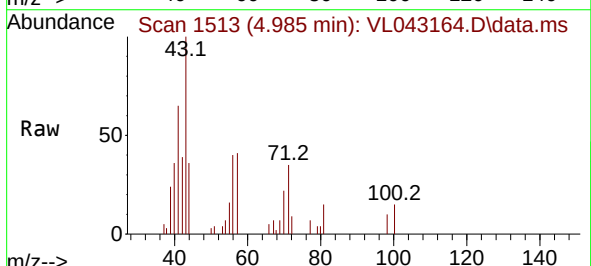
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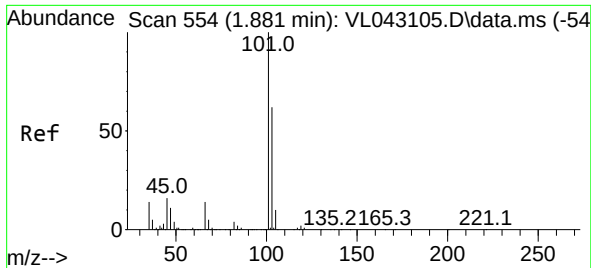
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#10
Heptane
Concen: 0.190 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 43 Resp: 4298
Ion Ratio Lower Upper
43 100
57 0.0 40.8 61.2#





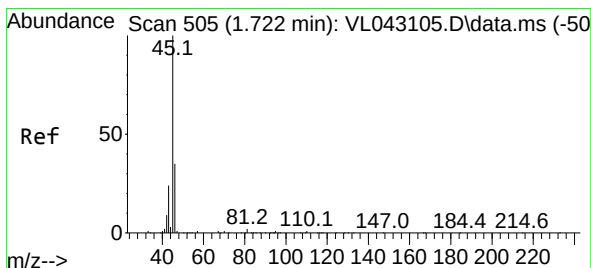
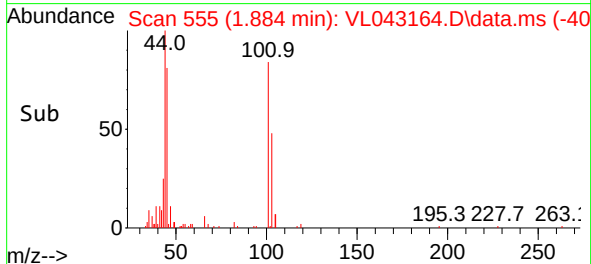
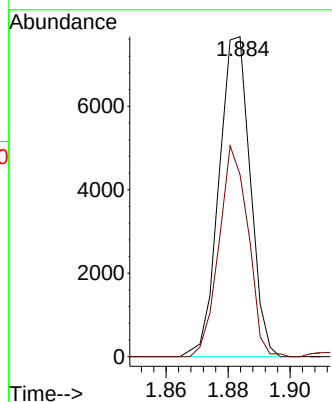
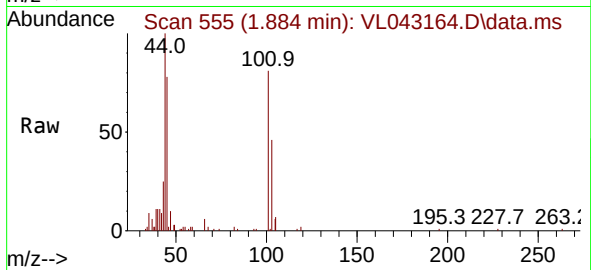
#11
Trichlorofluoromethane
Concen: 0.334 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
141-IA-1

Tgt Ion:101 Resp: 5360
Ion Ratio Lower Upper
101 100
103 56.9 49.3 73.9

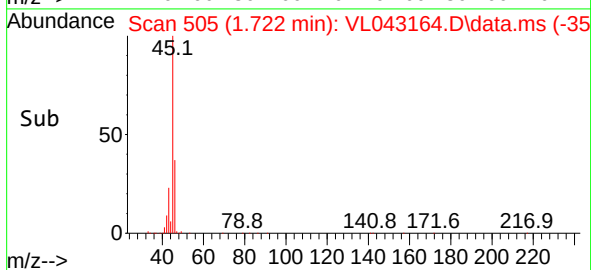
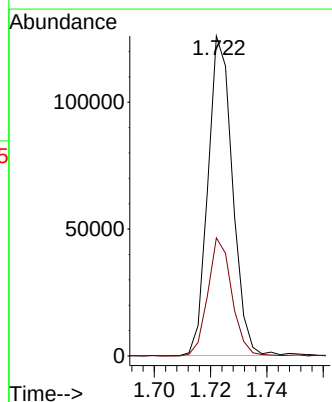
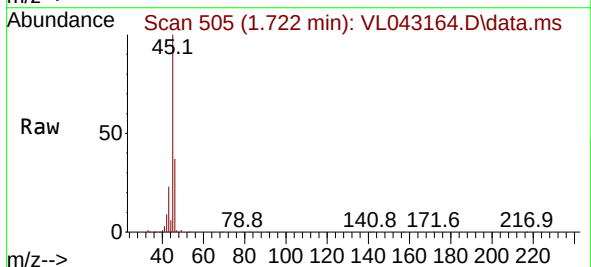
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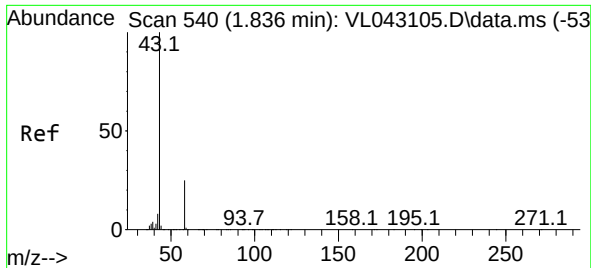
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#13
Ethanol
Concen: 26.173 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

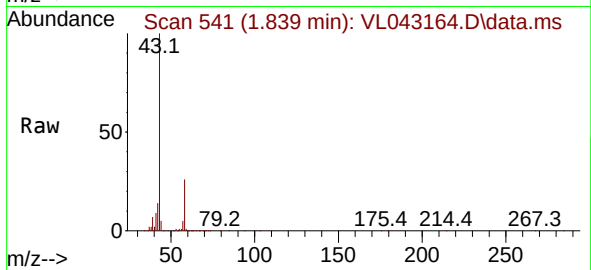
Tgt Ion: 45 Resp: 76195
Ion Ratio Lower Upper
45 100
46 36.8 14.7 58.9





#15
Acetone
Concen: 8.884 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

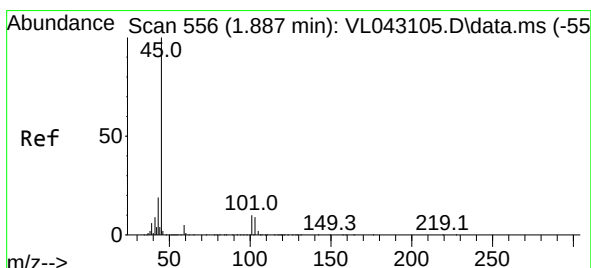
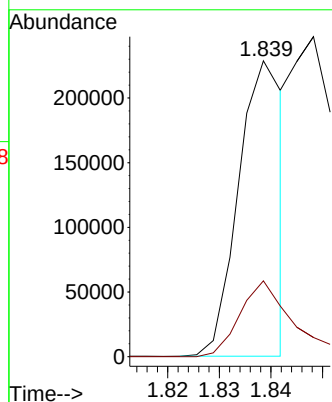
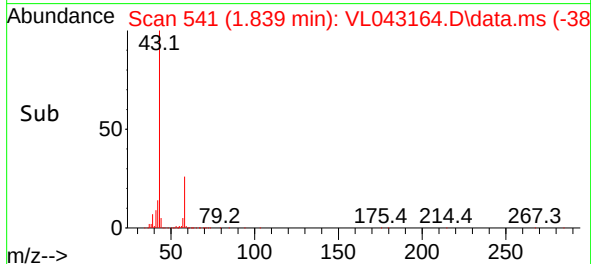
Instrument :
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ClientSampleId :
141-IA-1



Tgt Ion: 43 Resp: 138148
Ion Ratio Lower Upper
43 100
58 30.2 20.8 31.2

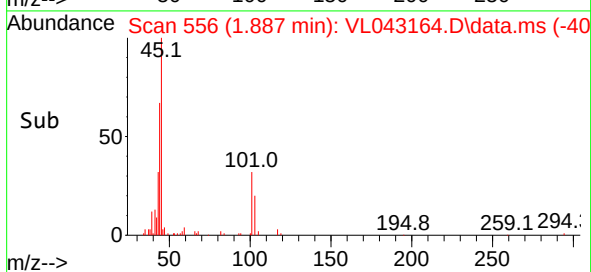
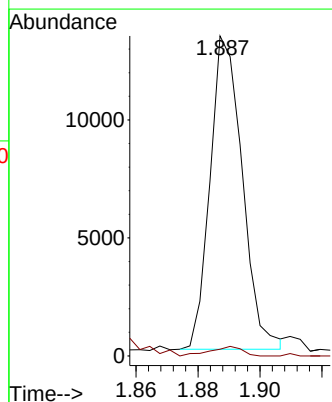
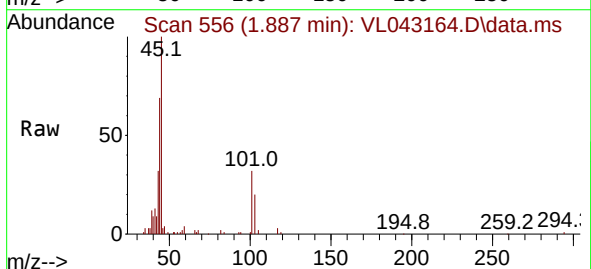
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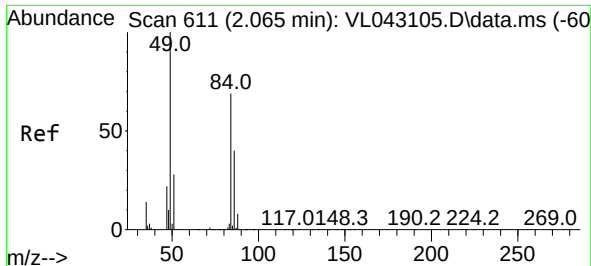
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#19
Isopropyl Alcohol
Concen: 0.989 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

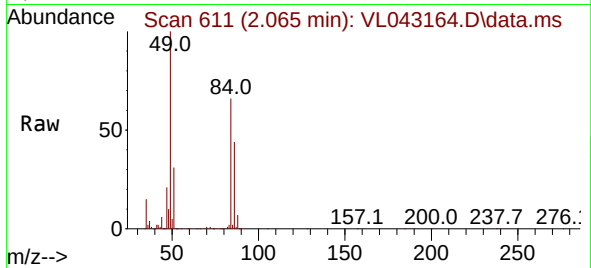
Tgt Ion: 45 Resp: 9578
Ion Ratio Lower Upper
45 100
58 434.7 31.3 46.9#





#20
Methylene Chloride
Concen: 15.846 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

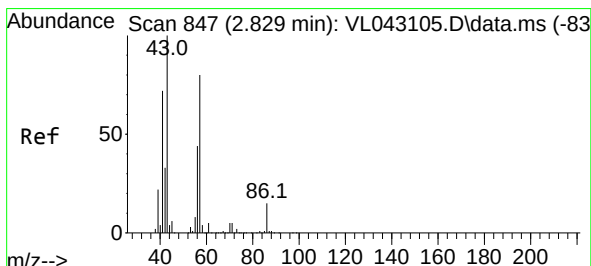
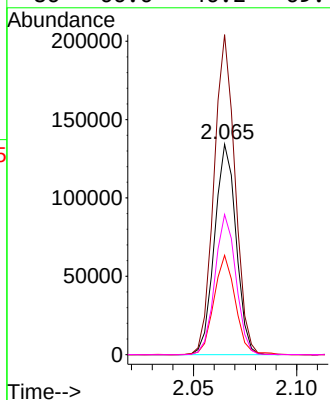
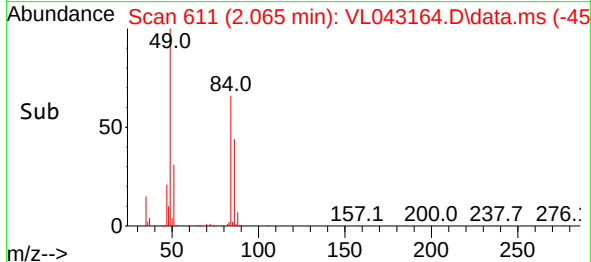
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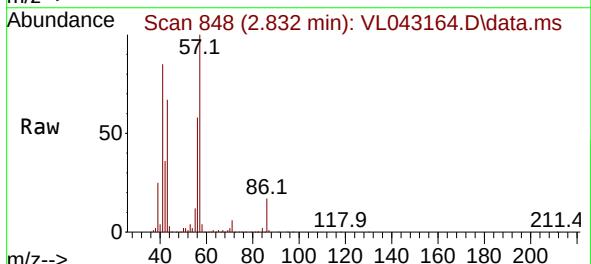
Tgt Ion: 84 Resp: 97390
Ion Ratio Lower Upper
84 100
49 152.0 116.6 175.0
51 47.2 34.8 52.2
86 66.6 46.2 69.4

Manual Integrations
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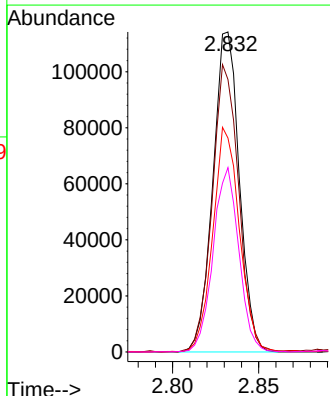
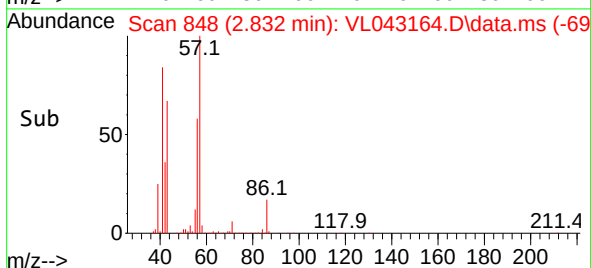
Reviewed By :Semsettin Yesilyurt 11/07/2025
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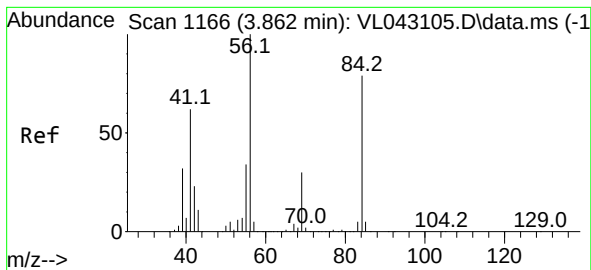


#26
Hexane
Concen: 6.875 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17



Tgt Ion: 57 Resp: 122149
Ion Ratio Lower Upper
57 100
41 90.6 71.4 107.0
43 71.8 178.5 267.7#
56 56.2 42.2 63.4





#30

Cyclohexane

Concen: 0.214 ppbv

RT: 3.865 min Scan# 1166

Delta R.T. 0.003 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

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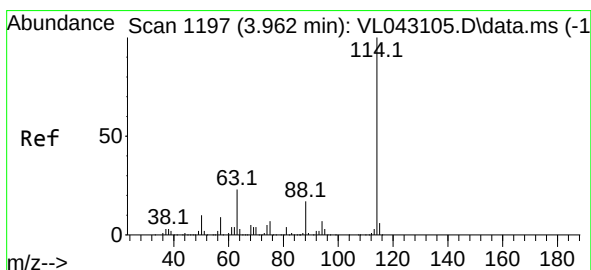
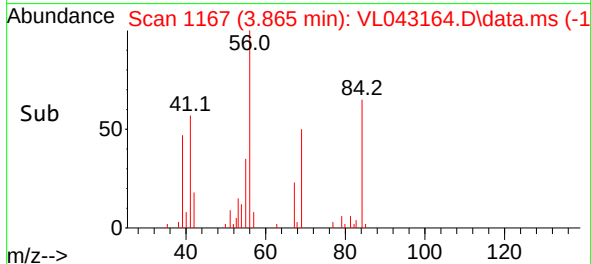
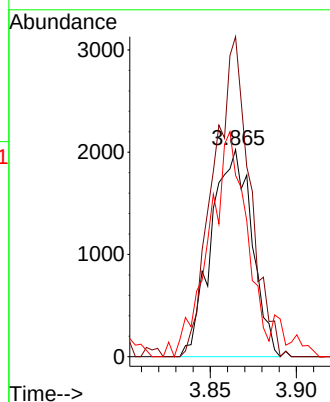
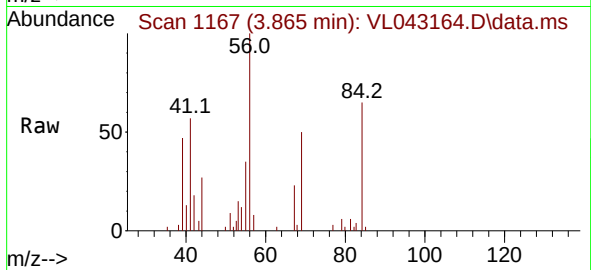
Tgt Ion: 84 Resp: 3310

Ion	Ratio	Lower	Upper
84	100		
56	140.3	100.9	151.3
41	109.4	63.8	95.6

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

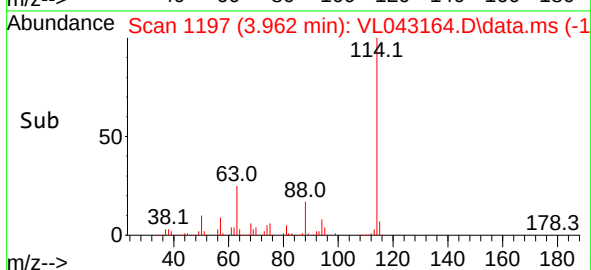
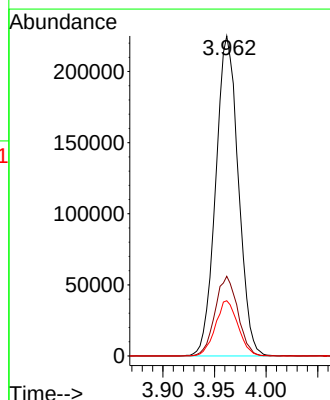
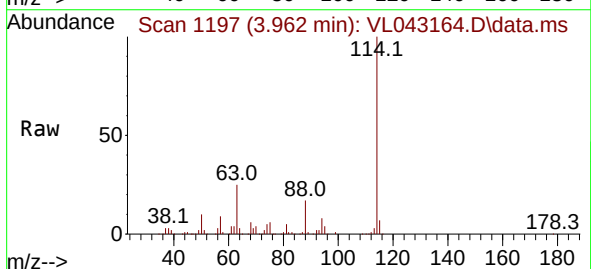
Delta R.T. -0.000 min

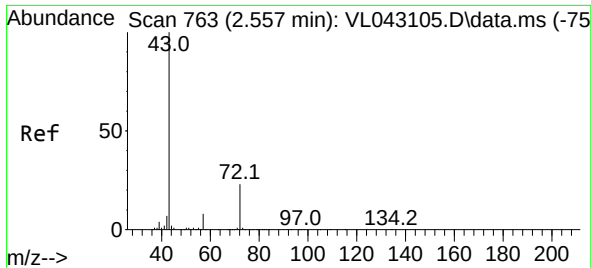
Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Tgt Ion:114 Resp: 342427

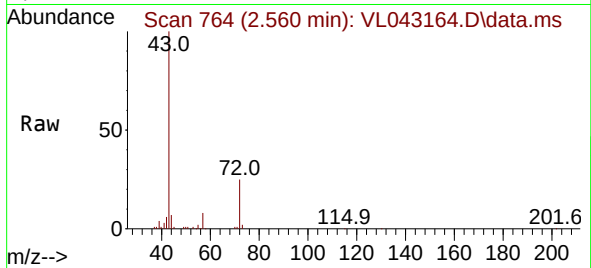
Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.3	28.9
88	17.2	13.9	20.9





#34
2-Butanone
Concen: 1.508 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

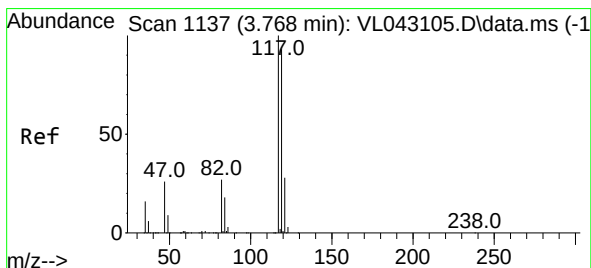
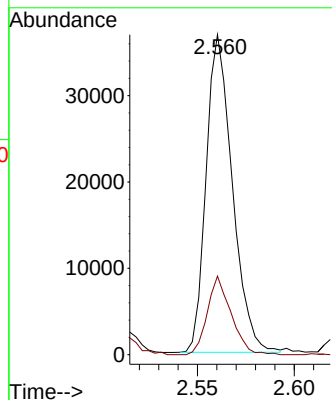
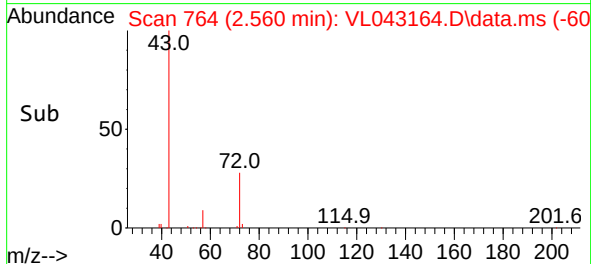
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion: 43 Resp: 34710
Ion Ratio Lower Upper
43 100
72 22.4 18.4 27.6

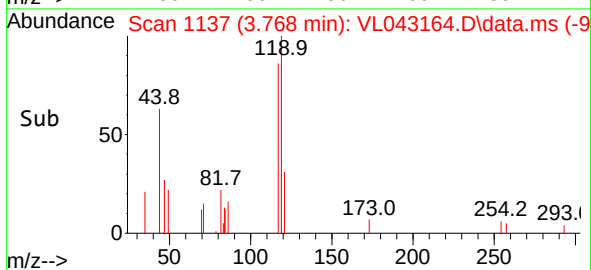
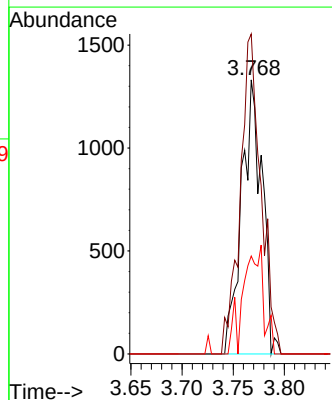
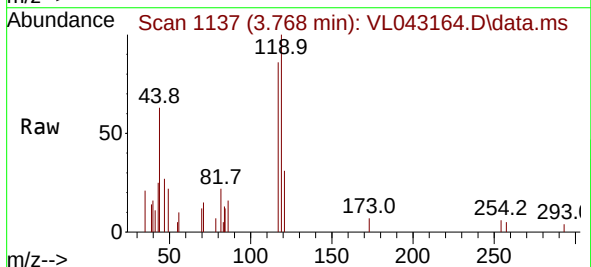
Manual Integrations
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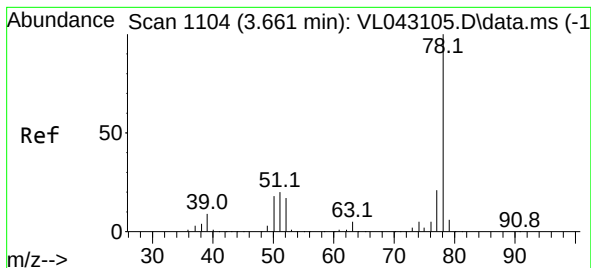
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion:117 Resp: 1853
Ion Ratio Lower Upper
117 100
119 116.8 74.1 111.1#
121 35.7 22.2 33.2#





#36

Benzene

Concen: 0.382 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

Instrument :

MSVOA_L

ClientSampleId :

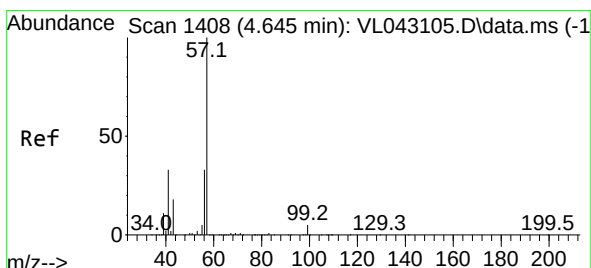
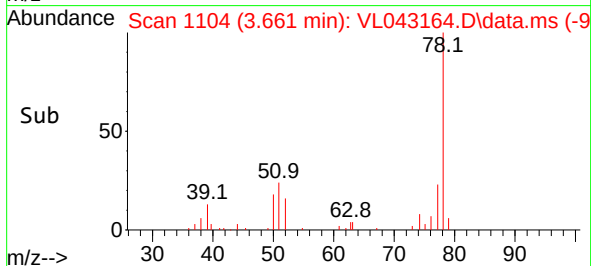
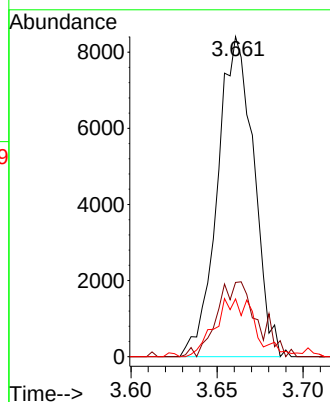
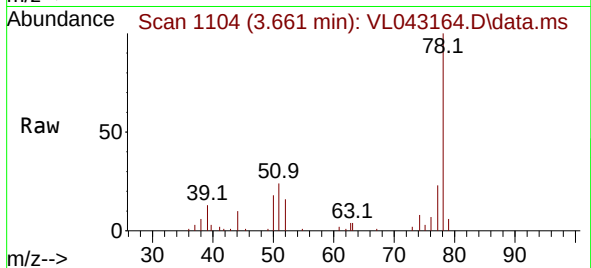
141-IA-1

Tgt Ion: 78 Resp: 12305
Ion Ratio Lower Upper
78 100
77 23.2 17.0 25.6
50 18.0 14.6 22.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#44

2,2,4-Trimethylpentane

Concen: 0.328 ppbv

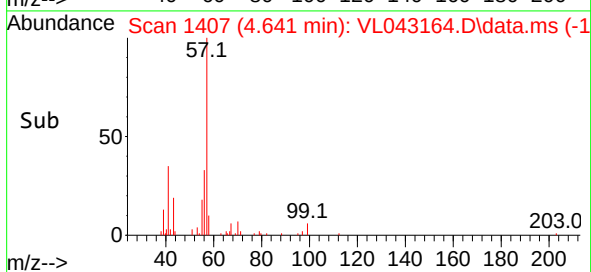
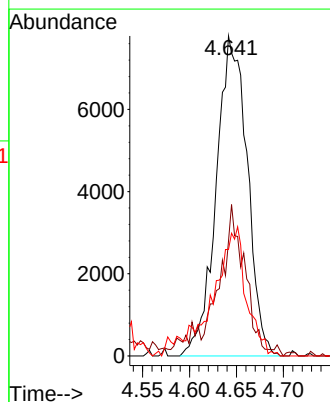
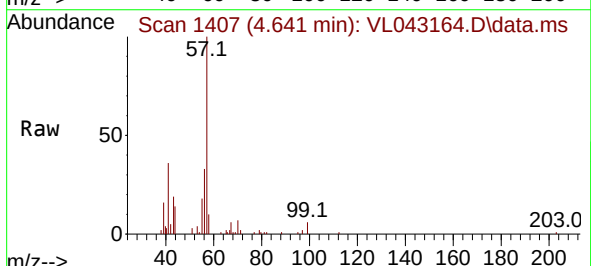
RT: 4.641 min Scan# 1407

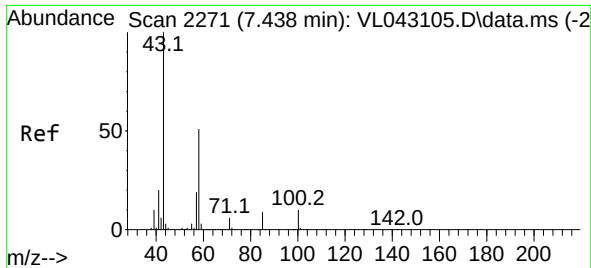
Delta R.T. -0.004 min

Lab File: VL043164.D

Acq: 06 Nov 2025 13:17

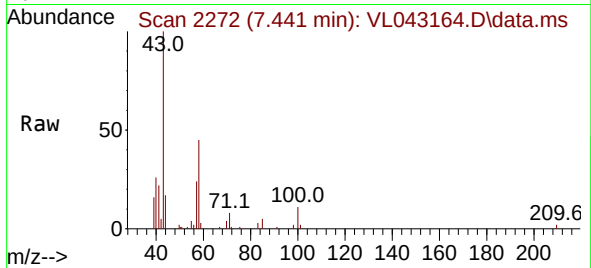
Tgt Ion: 57 Resp: 17870
Ion Ratio Lower Upper
57 100
41 45.5 26.3 39.5#
56 44.3 25.9 38.9#





#51
2-Hexanone
Concen: 0.477 ppbv m
RT: 7.441 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

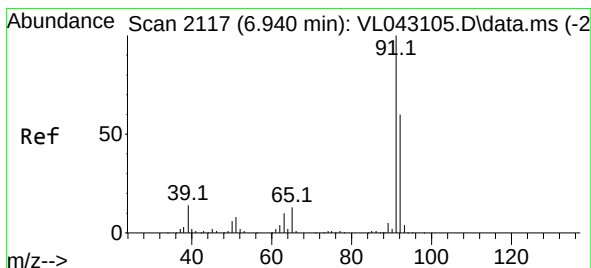
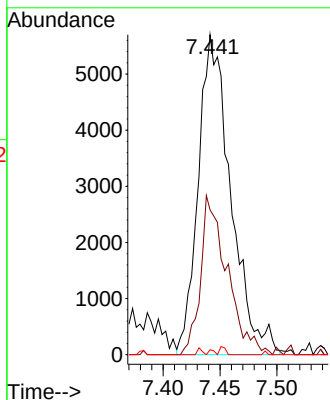
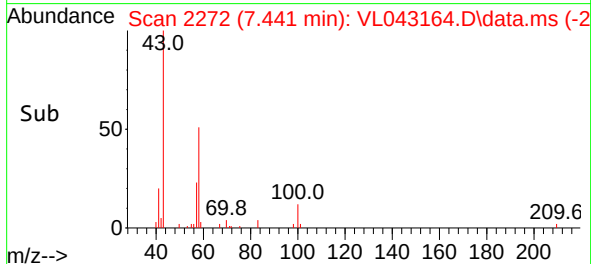
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion: 43 Resp: 11360
Ion Ratio Lower Upper
43 100
58 41.1 40.4 60.6
98 0.0 0.1 0.1

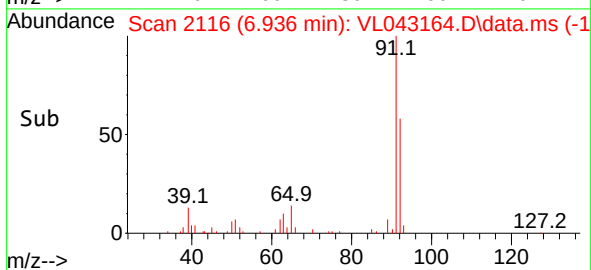
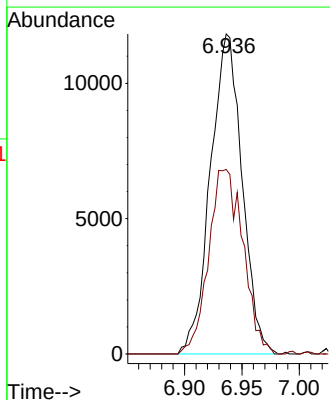
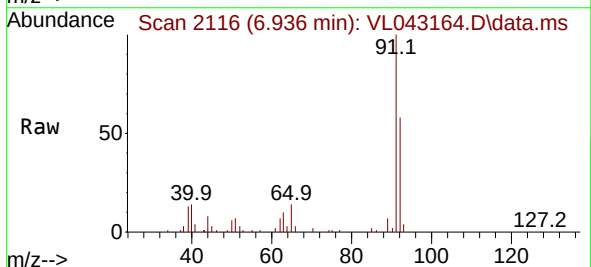
Manual Integrations
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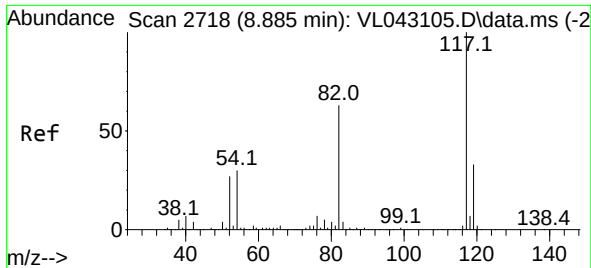
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#53
Toluene
Concen: 0.593 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. -0.004 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

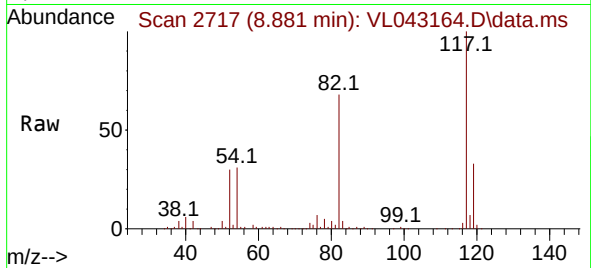
Tgt Ion: 91 Resp: 22705
Ion Ratio Lower Upper
91 100
92 63.0 48.8 73.2





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2718
Delta R.T. -0.004 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

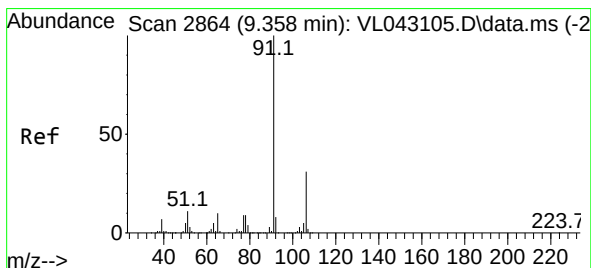
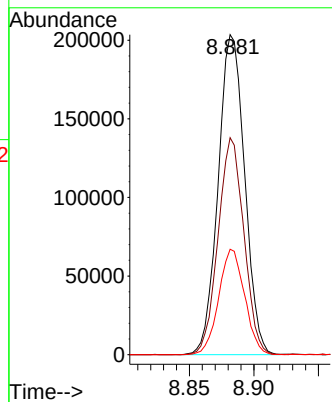
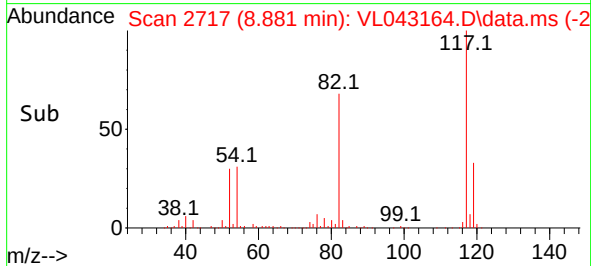
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion:117 Resp: 290452
Ion Ratio Lower Upper
117 100
82 66.0 53.8 80.8
119 32.3 25.4 38.0

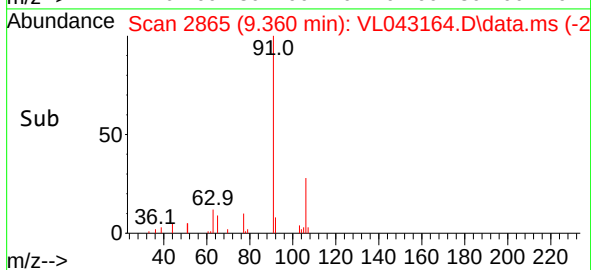
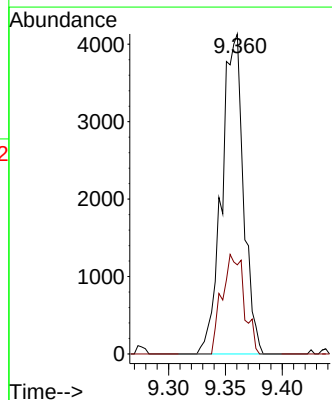
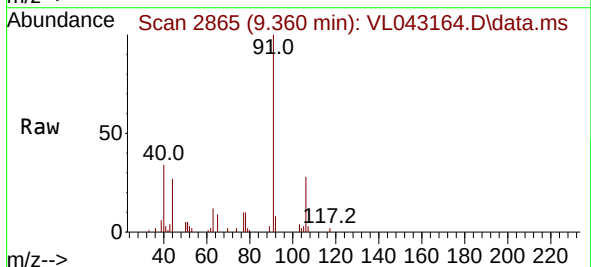
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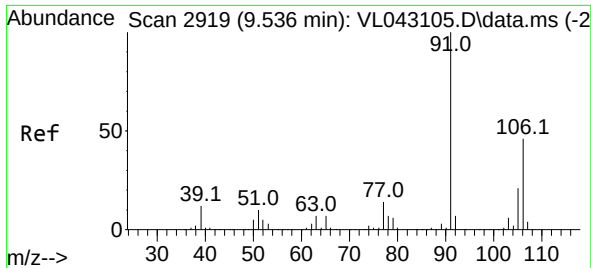
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#58
Ethyl Benzene
Concen: 0.110 ppbv m
RT: 9.360 min Scan# 2865
Delta R.T. 0.003 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Tgt Ion: 91 Resp: 5488
Ion Ratio Lower Upper
91 100
106 27.8 24.8 37.2





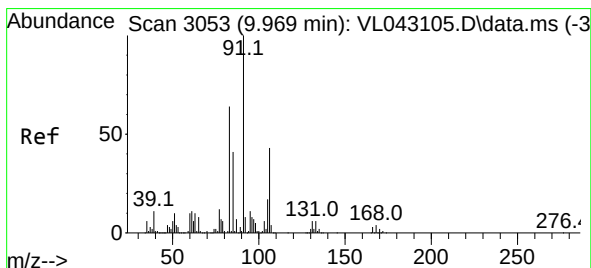
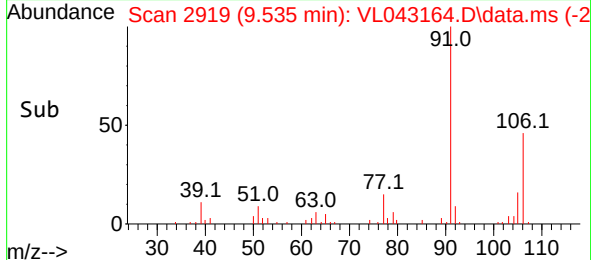
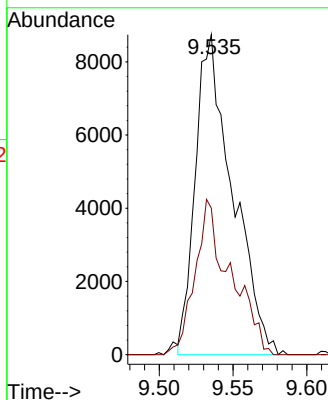
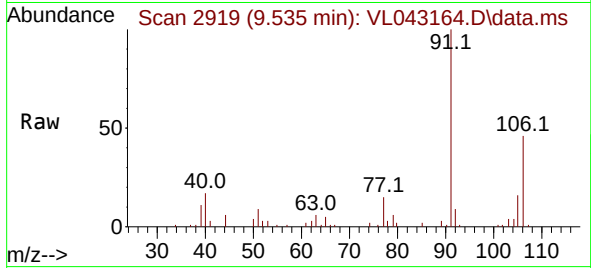
#59
m/p-Xylene
Concen: 0.385 ppbv
RT: 9.535 min Scan# 2919
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
141-IA-1

Tgt Ion: 91 Resp: 1529
Ion Ratio Lower Upper
91 100
106 46.5 38.0 57.0

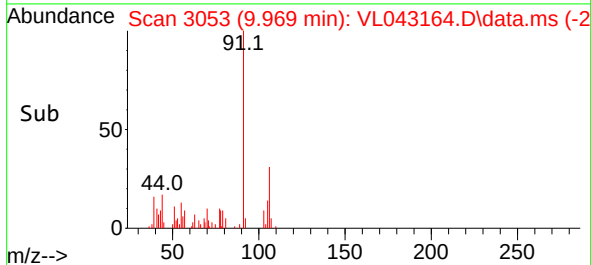
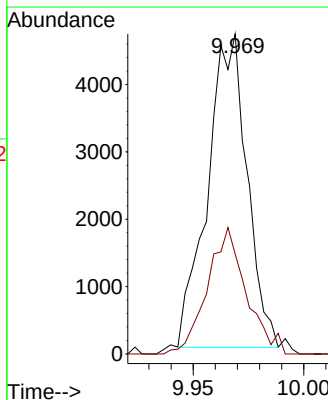
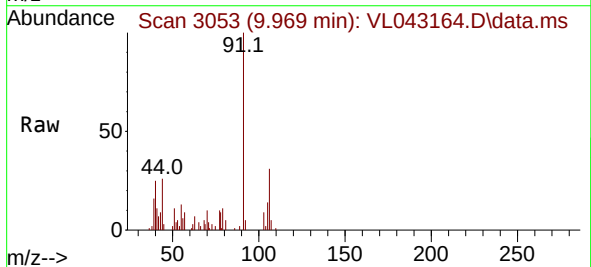
Manual Integrations
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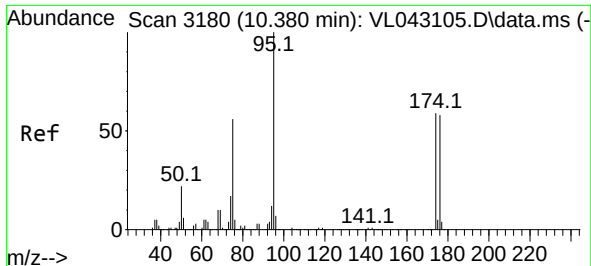
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#60
o-Xylene
Concen: 0.147 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

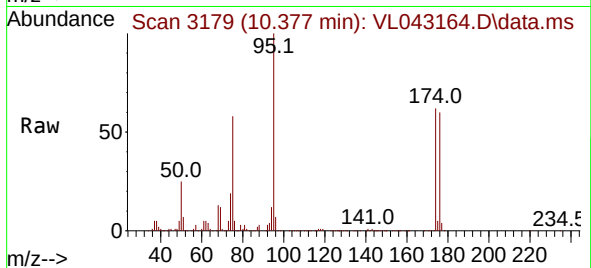
Tgt Ion: 91 Resp: 5758
Ion Ratio Lower Upper
91 100
106 39.8 21.9 65.8





#68
1-Bromo-4-Fluorobenzene
Concen: 10.513 ppbv
RT: 10.377 min Scan# 3180
Delta R.T. -0.004 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

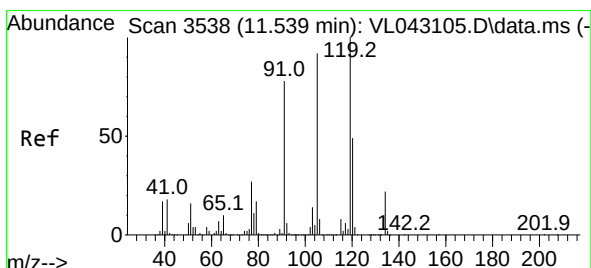
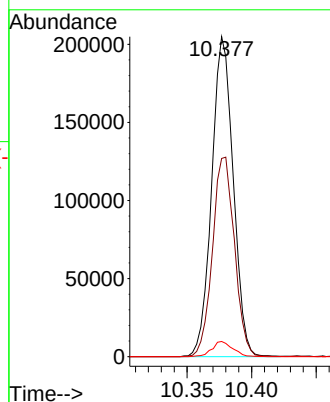
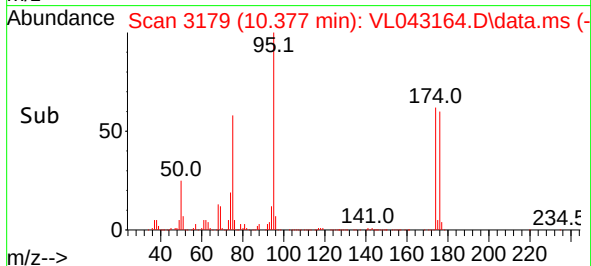
Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion: 95 Resp: 23735
Ion Ratio Lower Upper
95 100
174 63.7 48.3 72.5
175 4.6 3.8 5.8

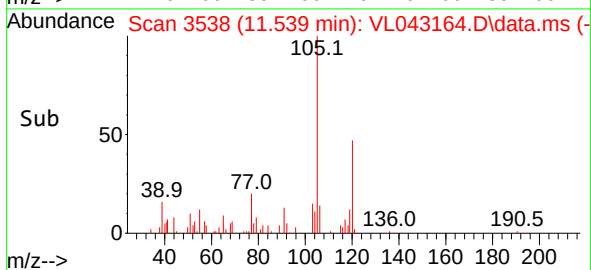
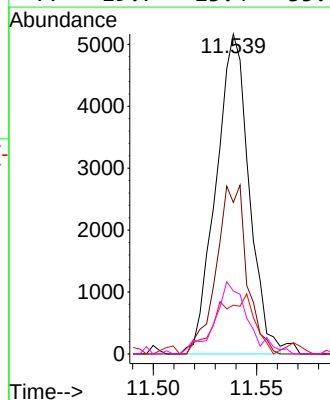
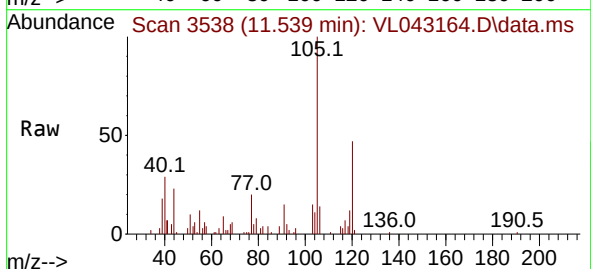
Manual Integrations
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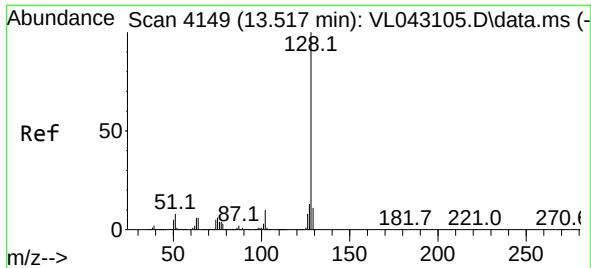
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.129 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

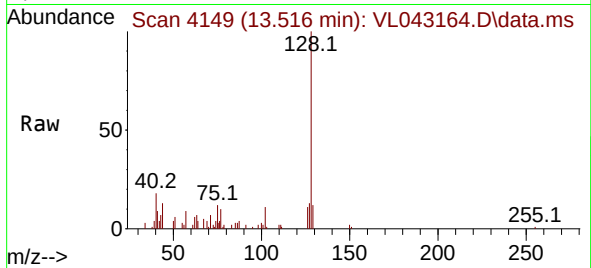
Tgt Ion:105 Resp: 5751
Ion Ratio Lower Upper
105 100
120 47.4 42.8 64.2
91 15.3 68.3 102.5#
77 19.7 23.4 35.0#





#79
Naphthalene
Concen: 0.133 ppbv m
RT: 13.516 min Scan# 4149
Delta R.T. -0.000 min
Lab File: VL043164.D
Acq: 06 Nov 2025 13:17

Instrument :
MSVOA_L
ClientSampleId :
141-IA-1



Tgt Ion:128 Resp: 6210
Ion Ratio Lower Upper
128 100
127 13.3 10.5 15.7
129 12.2 9.1 13.7

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

