

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
 Data File : VL043158.D
 Acq On : 06 Nov 2025 09:42
 Operator : SY/MD
 Sample : Q3555-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 151-IA-2

Manual Integrations
 APPROVED

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

Quant Time: Nov 07 00:18:32 2025

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

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

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	2.793	49	116276	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	360094	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	301802	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	235804	10.052	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	8445	0.511	ppbv	98
3) Chlorodifluoromethane	1.479	51	5305m	0.297	ppbv	
4) Chloromethane	1.534	50	2810	0.429	ppbv	96
9) Propene	1.489	41	4565m	0.575	ppbv	
10) Heptane	4.985	43	2753m	0.121	ppbv	
11) Trichlorofluoromethane	1.881	101	5082	0.314	ppbv	93
13) Ethanol	1.722	45	127573	43.479	ppbv	99
15) Acetone	1.839	43	99423	6.344	ppbv	93
17) tert-Butyl alcohol	2.043	59	2277m	0.106	ppbv	
19) Isopropyl Alcohol	1.887	45	283806	29.075	ppbv #	37
20) Methylene Chloride	2.065	84	3633	0.586	ppbv	91
26) Hexane	2.832	57	18542	1.035	ppbv #	55
29) Chloroform	2.852	83	16200	0.624	ppbv	100
30) Cyclohexane	3.858	84	1695m	0.108	ppbv	
34) 2-Butanone	2.564	43	7553	0.312	ppbv	98
35) Carbon Tetrachloride	3.774	117	2075m	0.080	ppbv	
36) Benzene	3.664	78	6853	0.202	ppbv	95
37) 1,2-Dichloroethane	3.221	62	4215	0.216	ppbv	98
44) 2,2,4-Trimethylpentane	4.642	57	5863m	0.102	ppbv	
53) Toluene	6.940	91	21107	0.524	ppbv	99
59) m/p-Xylene	9.535	91	11616m	0.281	ppbv	
60) o-Xylene	9.966	91	4671	0.114	ppbv	97

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

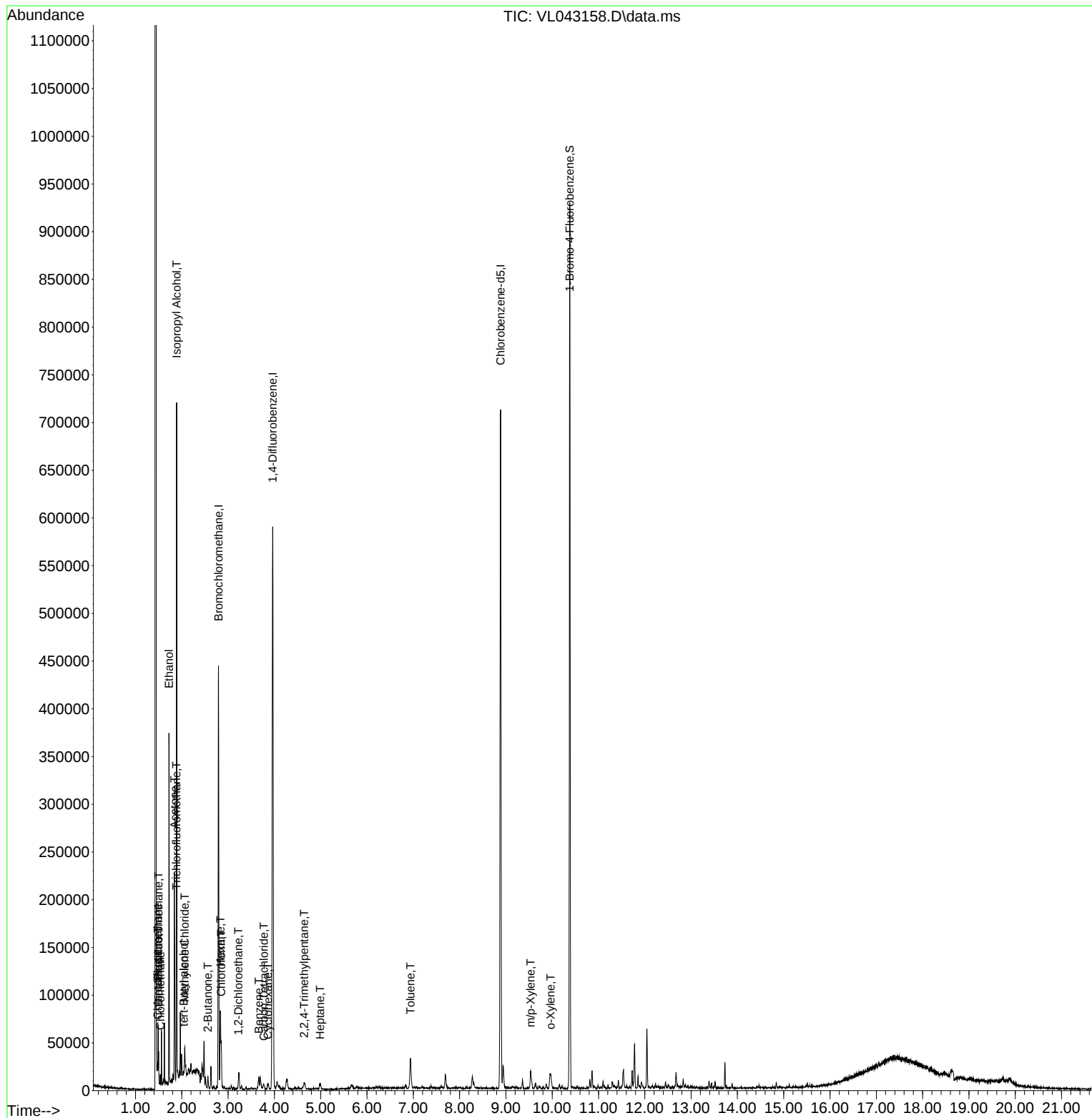
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110625\
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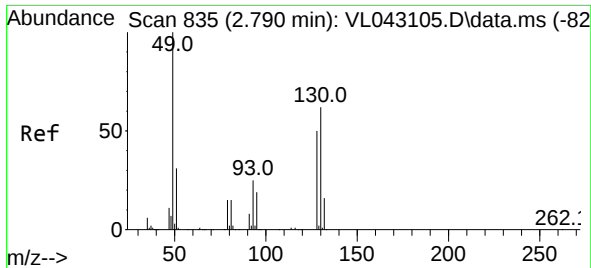
Instrument :
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ClientSampleId :
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Quant Time: Nov 07 00:18:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Oct 15 02:12:58 2025
Response via : Initial Calibration

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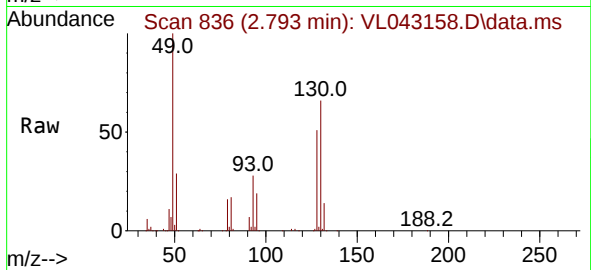
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 835
Delta R.T. 0.003 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

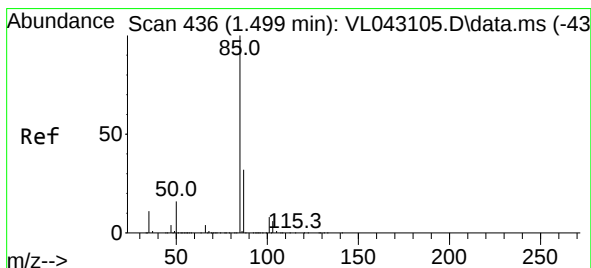
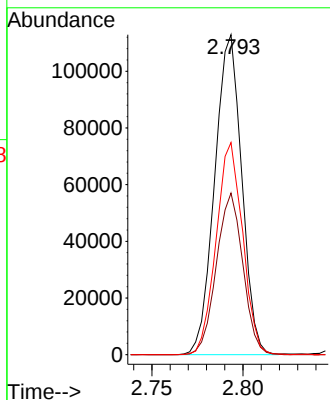
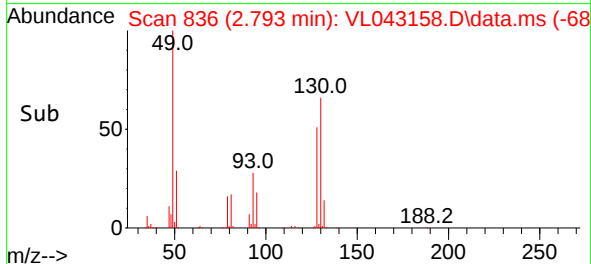
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2



Tgt Ion: 49 Resp: 116270
Ion Ratio Lower Upper
49 100
128 49.5 24.4 73.4
130 65.1 31.0 93.0

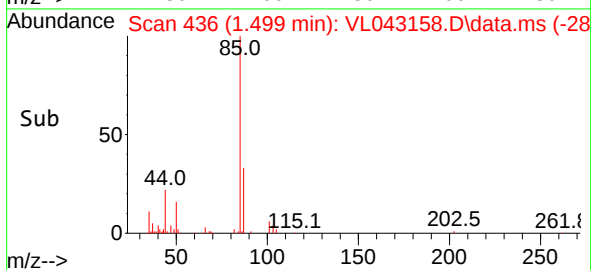
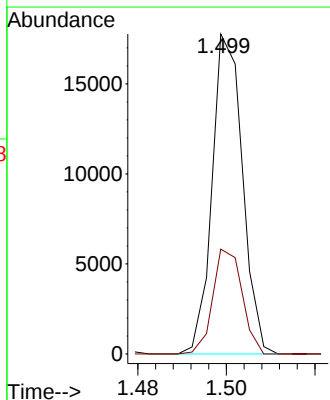
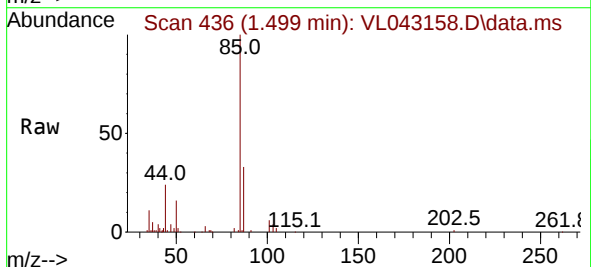
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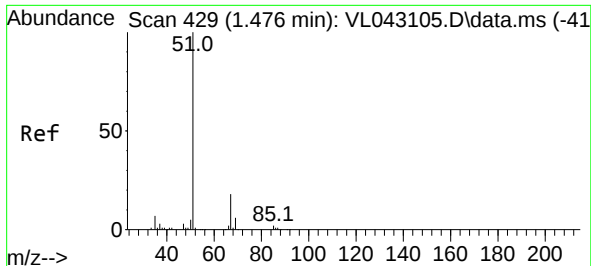
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#2
Dichlorodifluoromethane
Concen: 0.511 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

Tgt Ion: 85 Resp: 8445
Ion Ratio Lower Upper
85 100
87 32.8 25.3 37.9





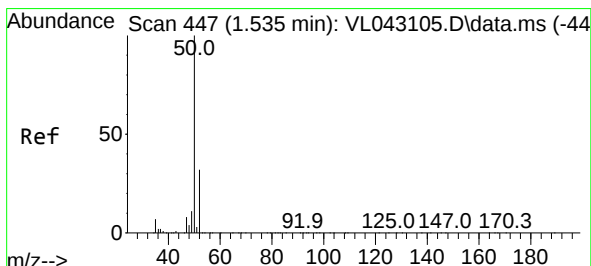
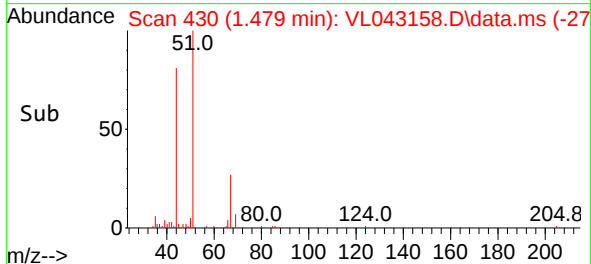
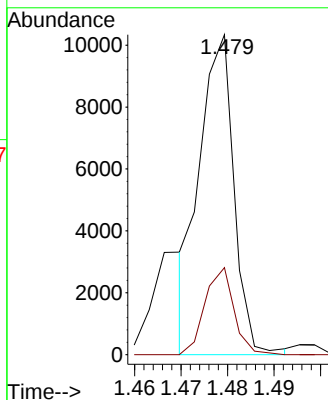
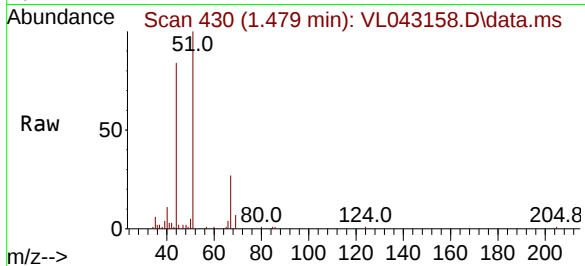
#3
Chlorodifluoromethane
Concen: 0.297 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2

Tgt Ion: 51 Resp: 530
Ion Ratio Lower Upper
51 100
67 23.1 15.1 22.7

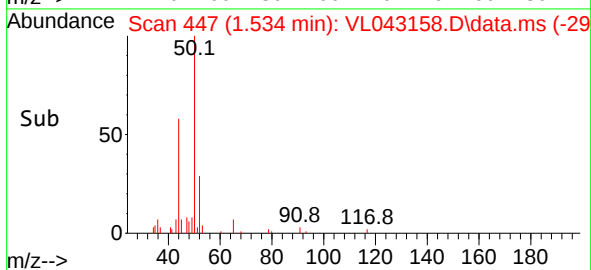
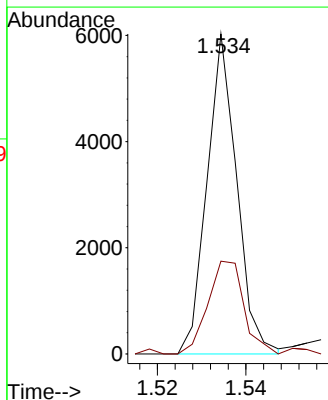
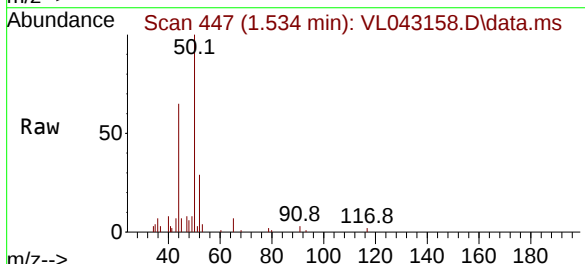
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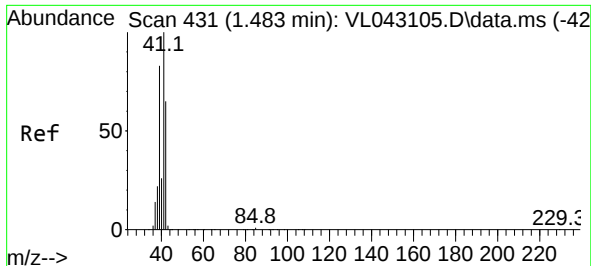
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#4
Chloromethane
Concen: 0.429 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

Tgt Ion: 50 Resp: 2810
Ion Ratio Lower Upper
50 100
52 29.0 25.2 37.8





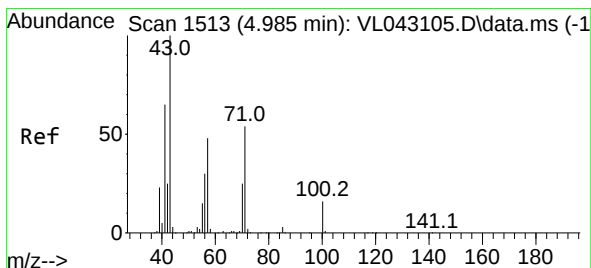
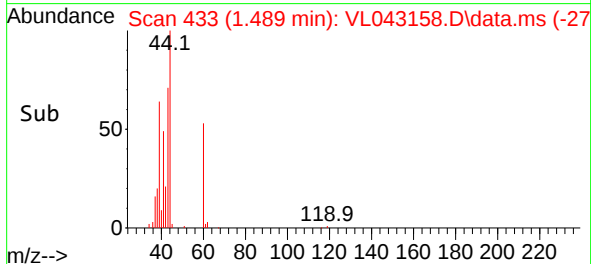
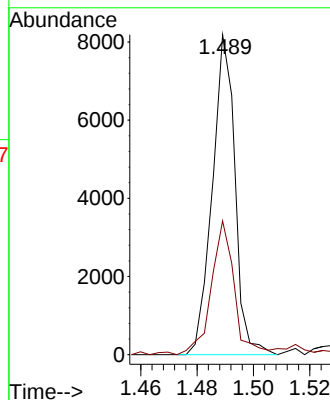
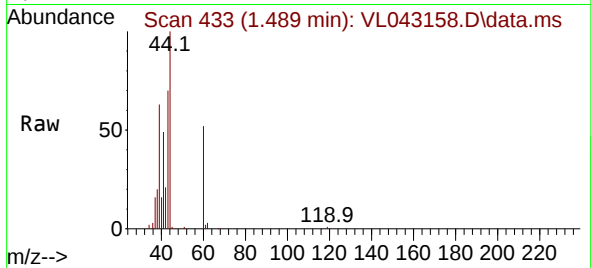
#9
Propene
Concen: 0.575 ppbv m
RT: 1.489 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2

Tgt Ion: 41 Resp: 456
Ion Ratio Lower Upper
41 100
42 343.2 55.1 82.7

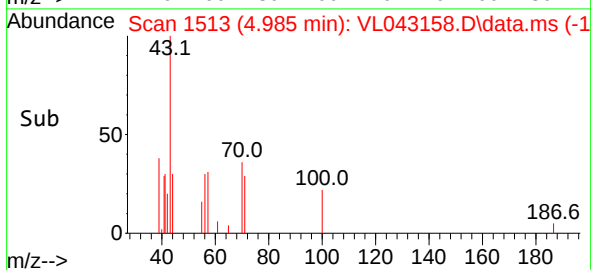
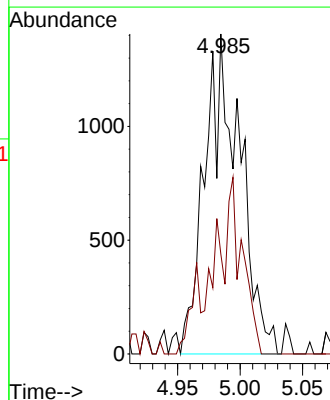
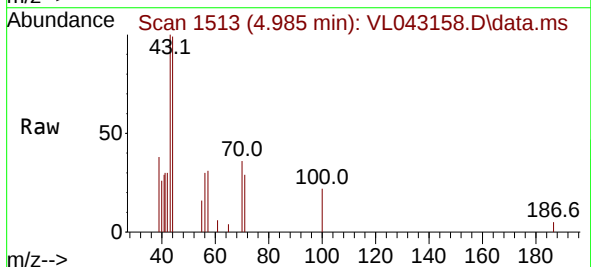
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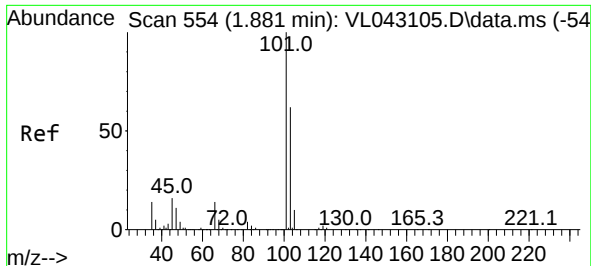
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#10
Heptane
Concen: 0.121 ppbv m
RT: 4.985 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

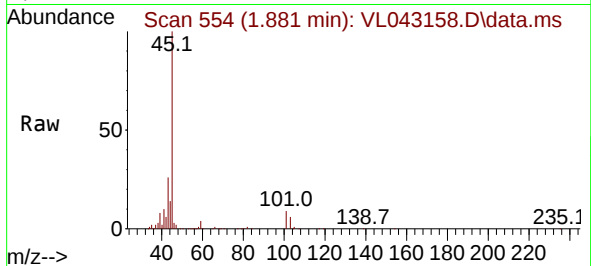
Tgt Ion: 43 Resp: 2753
Ion Ratio Lower Upper
43 100
57 46.2 40.8 61.2





#11
Trichlorofluoromethane
Concen: 0.314 ppbv
RT: 1.881 min Scan# 508
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

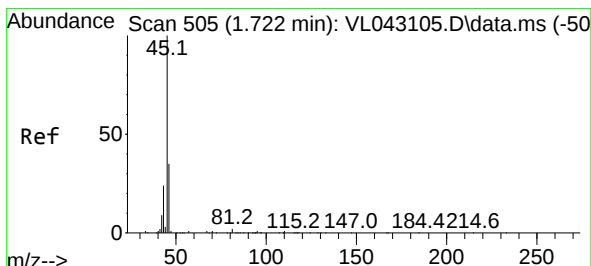
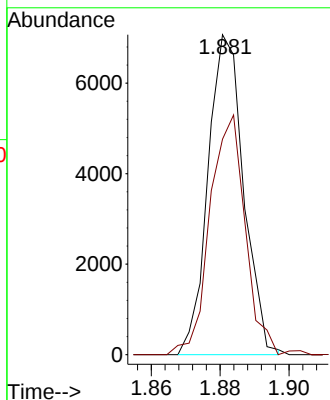
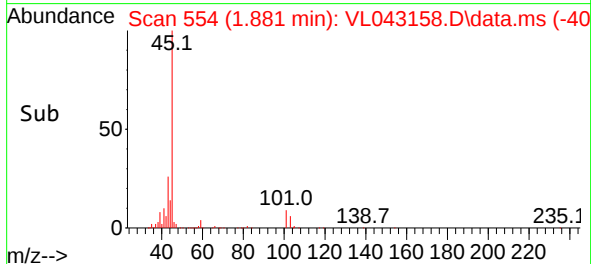
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2



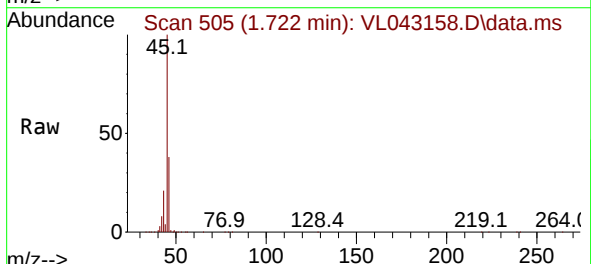
Tgt Ion:101 Resp: 508
Ion Ratio Lower Upper
101 100
103 67.4 49.3 73.9

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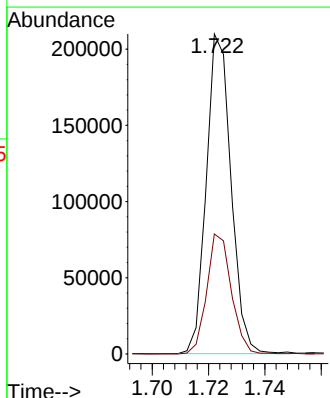
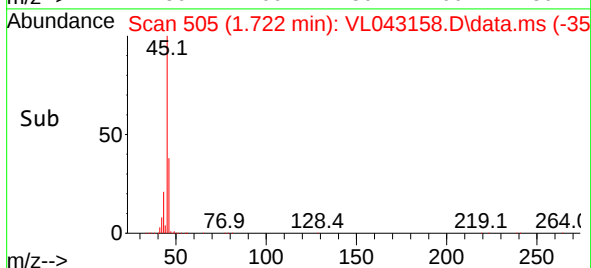
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025

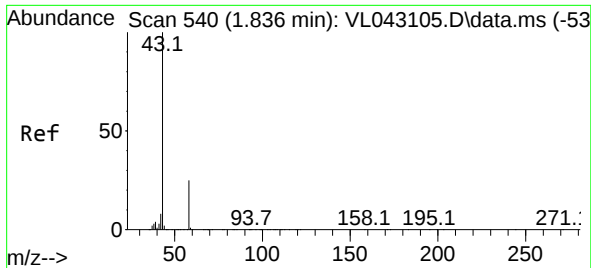


#13
Ethanol
Concen: 43.479 ppbv
RT: 1.722 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42



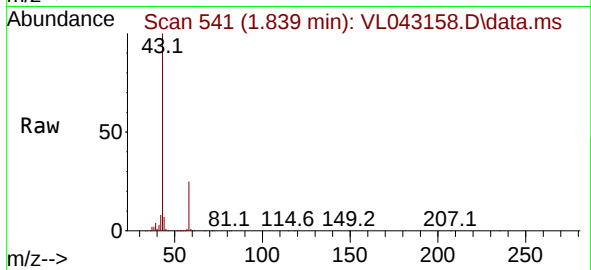
Tgt Ion: 45 Resp: 127573
Ion Ratio Lower Upper
45 100
46 37.6 14.7 58.9





#15
Acetone
Concen: 6.344 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

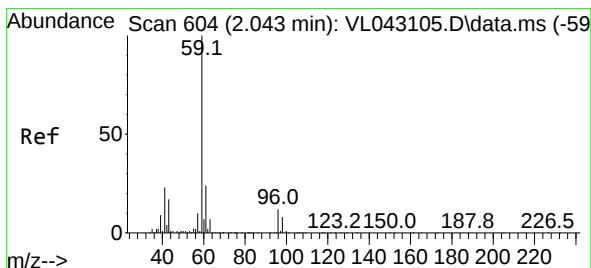
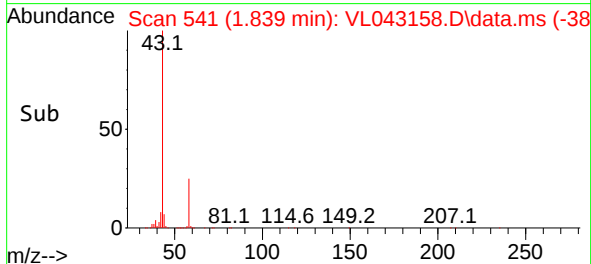
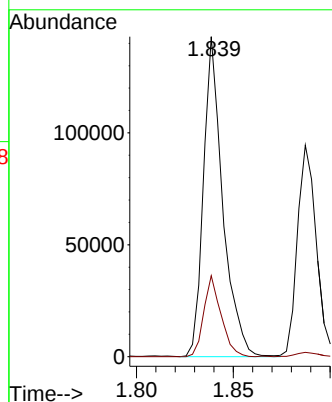
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2



Tgt Ion: 43 Resp: 9942
Ion Ratio Lower Upper
43 100
58 22.6 20.8 31.2

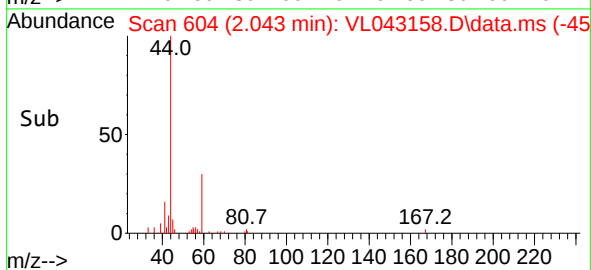
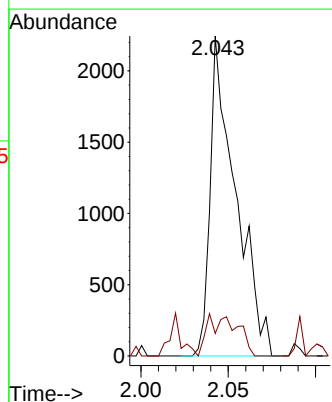
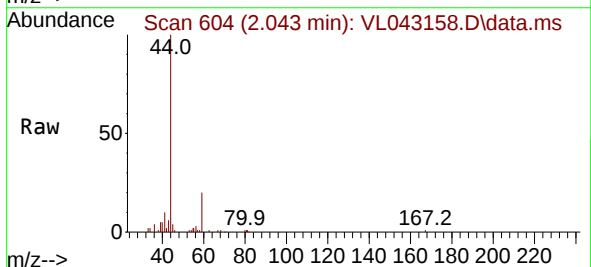
Manual Integrations
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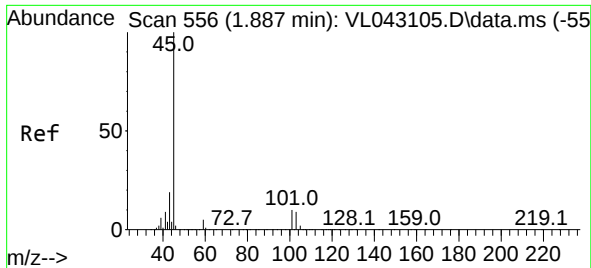
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#17
tert-Butyl alcohol
Concen: 0.106 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

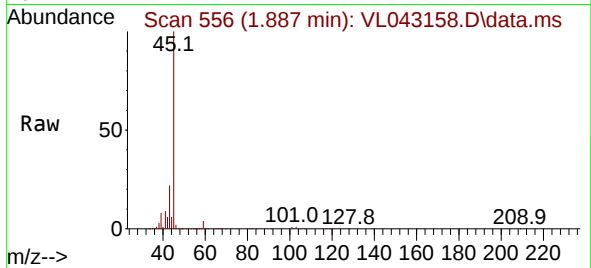
Tgt Ion: 59 Resp: 2277
Ion Ratio Lower Upper
59 100
57 47.7 8.2 12.4#





#19
Isopropyl Alcohol
Concen: 29.075 ppbv
RT: 1.887 min Scan# 556
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

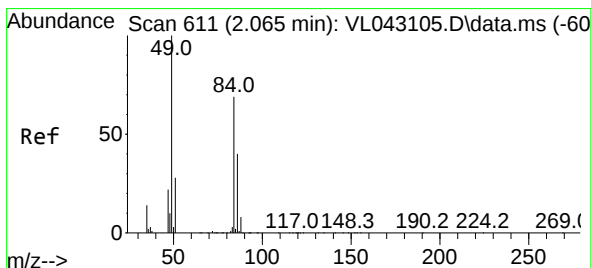
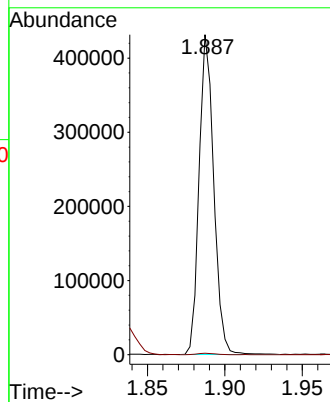
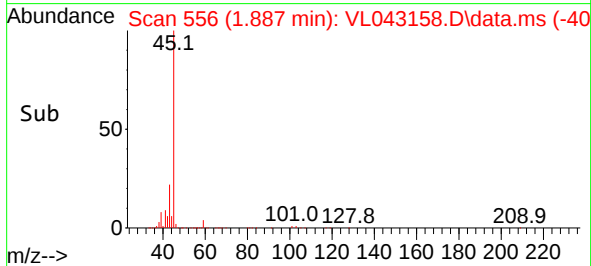
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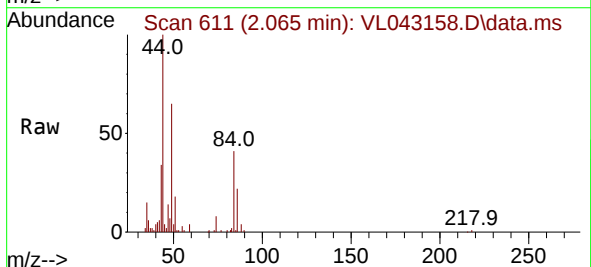
Tgt Ion: 45 Resp: 283800
Ion Ratio Lower Upper
45 100
58 0.6 31.3 46.9

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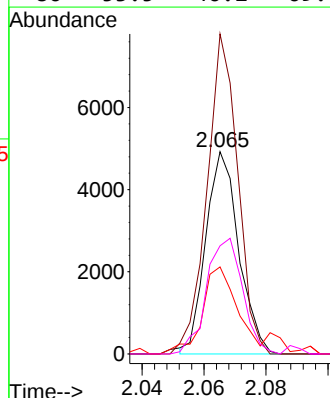
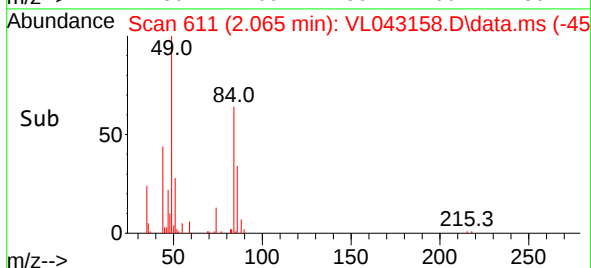
Reviewed By :Semsettin Yesilyurt 11/07/2025
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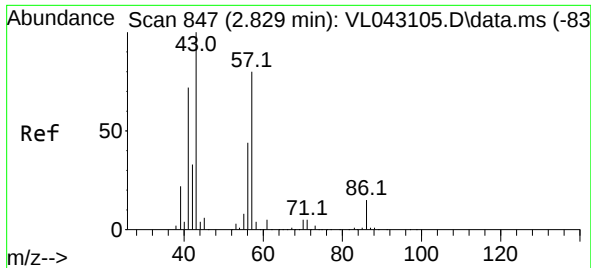


#20
Methylene Chloride
Concen: 0.586 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42



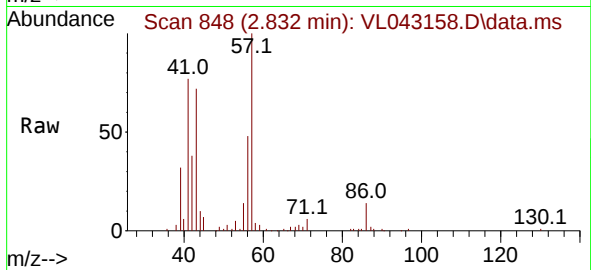
Tgt Ion: 84 Resp: 3633
Ion Ratio Lower Upper
84 100
49 158.2 116.6 175.0
51 38.1 34.8 52.2
86 53.5 46.2 69.4





#26
Hexane
Concen: 1.035 ppbv
RT: 2.832 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

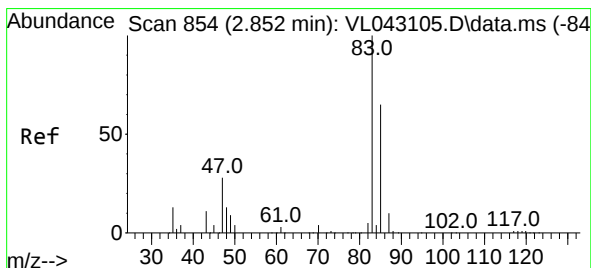
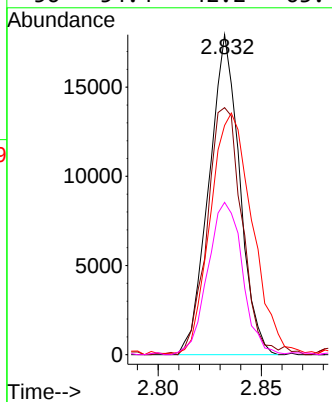
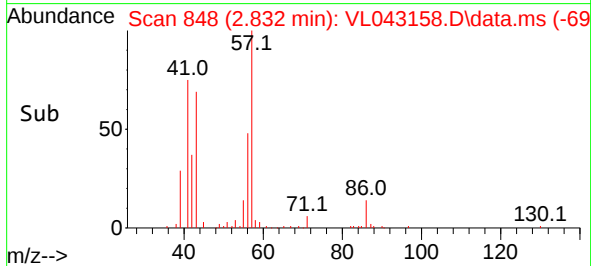
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2



Tgt Ion: 57 Resp: 1854
Ion Ratio Lower Upper
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41 88.3 71.4 107.0
43 106.1 178.5 267.7
56 54.4 42.2 63.4

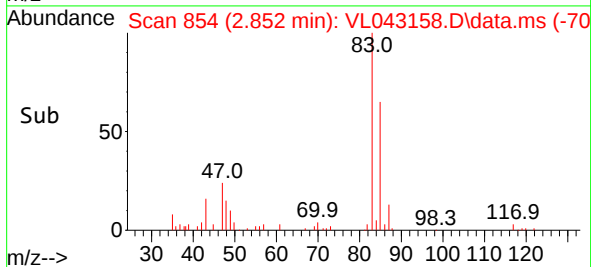
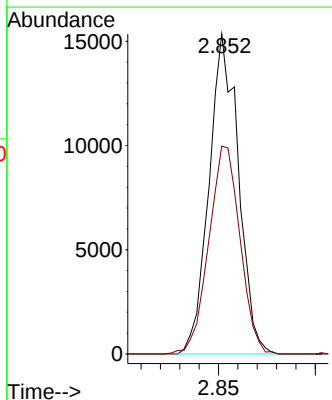
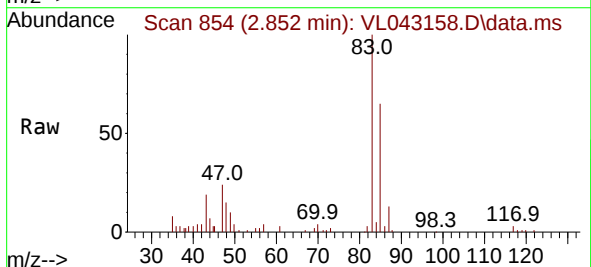
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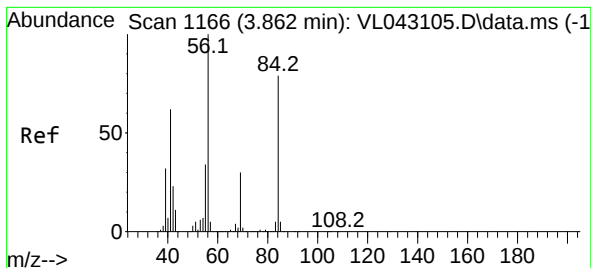
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#29
Chloroform
Concen: 0.624 ppbv
RT: 2.852 min Scan# 854
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

Tgt Ion: 83 Resp: 16200
Ion Ratio Lower Upper
83 100
85 64.9 51.8 77.6





#30

Cyclohexane

Concen: 0.108 ppbv m

RT: 3.858 min Scan# 1165

Delta R.T. -0.003 min

Lab File: VL043158.D

Acq: 06 Nov 2025 09:42

Instrument :

MSVOA_L

ClientSampleId :

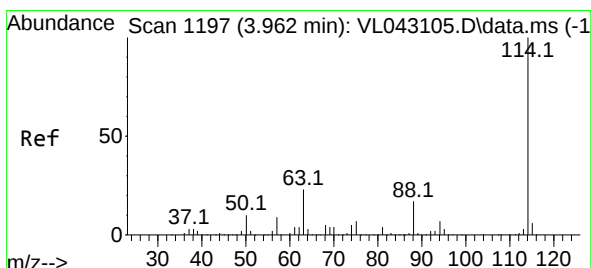
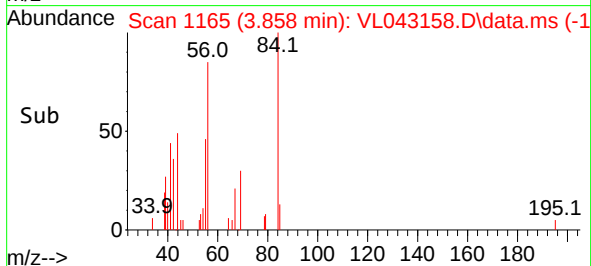
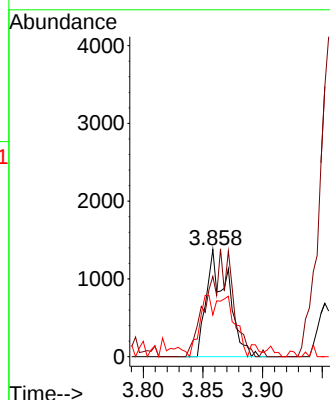
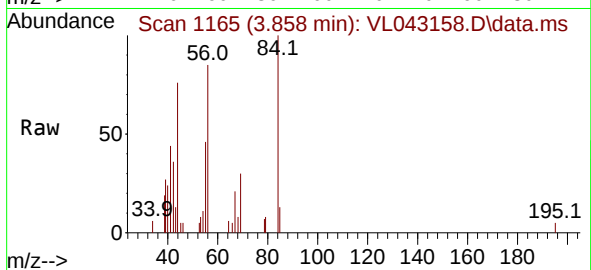
151-IA-2

Tgt Ion:	84	Resp:	169
Ion	Ratio	Lower	Upper
84	100		
56	0.0	100.9	151.3
41	0.0	63.8	95.6

Manual Integrations

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

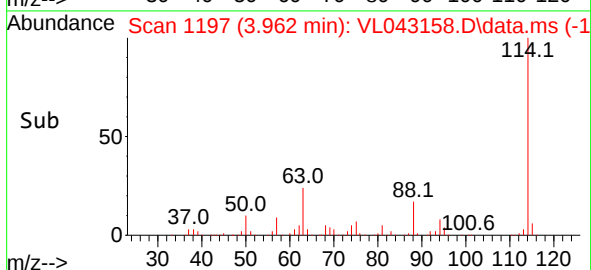
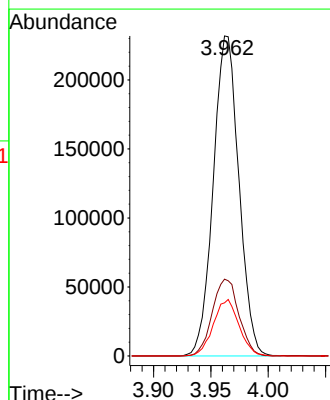
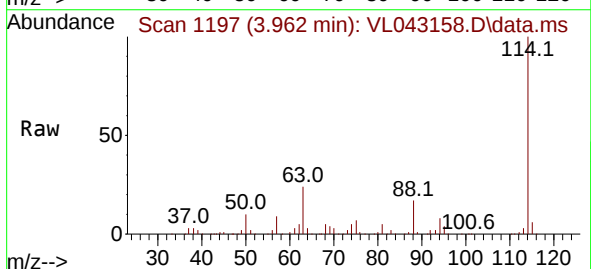
RT: 3.962 min Scan# 1197

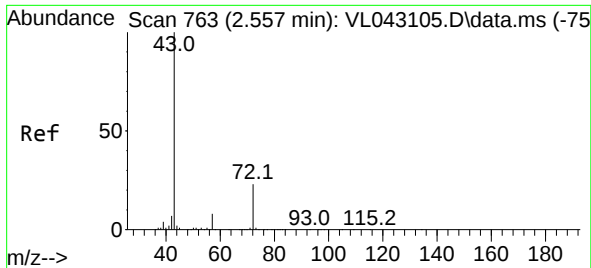
Delta R.T. -0.000 min

Lab File: VL043158.D

Acq: 06 Nov 2025 09:42

Tgt Ion:	114	Resp:	360094
Ion	Ratio	Lower	Upper
114	100		
63	25.0	19.3	28.9
88	17.7	13.9	20.9





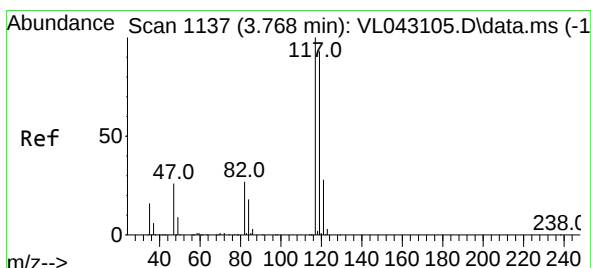
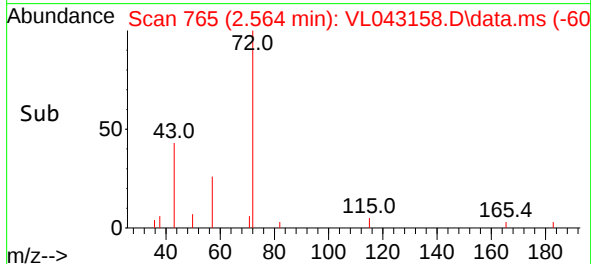
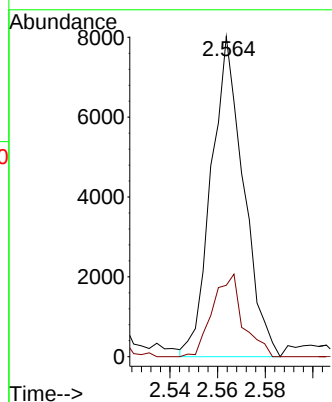
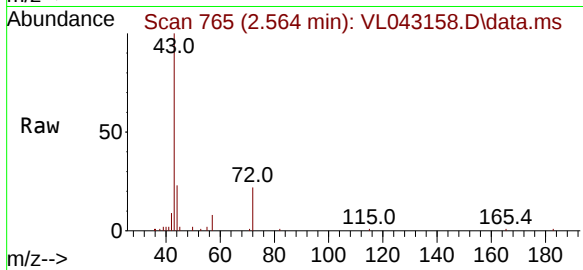
#34
2-Butanone
Concen: 0.312 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2

Tgt Ion: 43 Resp: 755
Ion Ratio Lower Upper
43 100
72 24.2 18.4 27.6

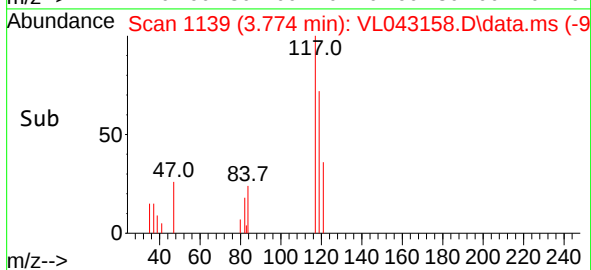
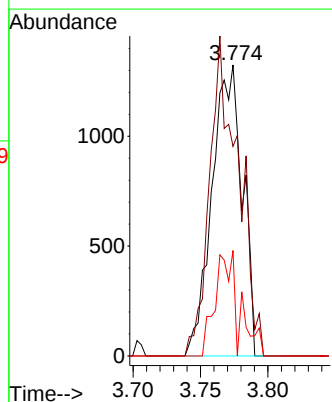
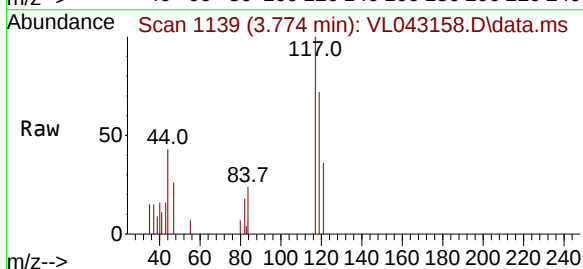
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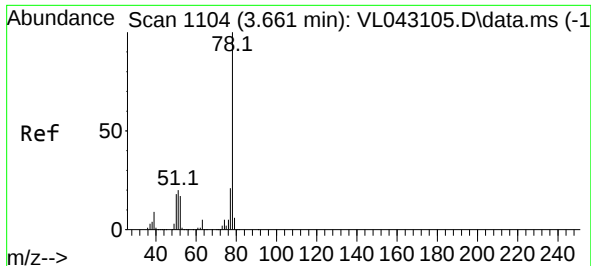
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#35
Carbon Tetrachloride
Concen: 0.080 ppbv m
RT: 3.774 min Scan# 1139
Delta R.T. 0.006 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

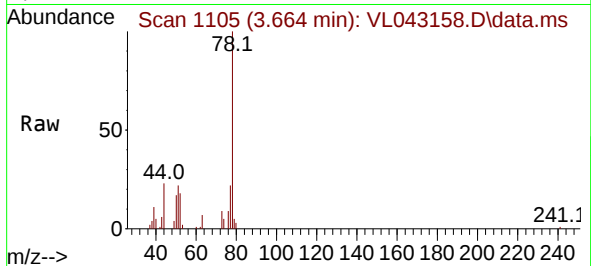
Tgt Ion:117 Resp: 2075
Ion Ratio Lower Upper
117 100
119 72.0 74.1 111.1#
121 36.2 22.2 33.2#





#36
Benzene
Concen: 0.202 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

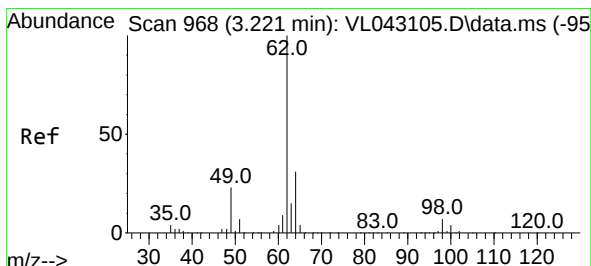
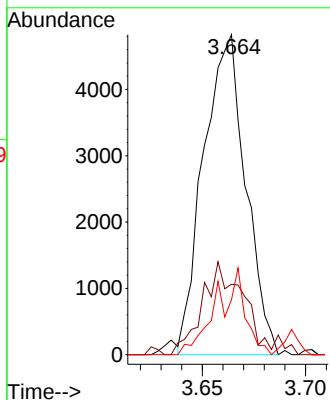
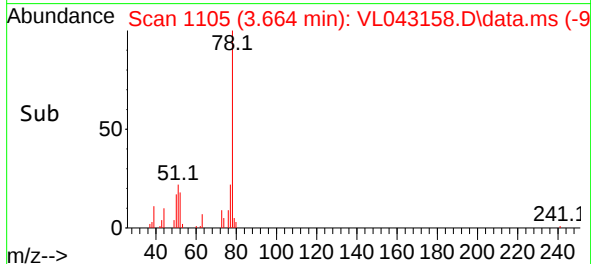
Instrument :
MSVOA_L
ClientSampleId :
151-IA-2



Tgt Ion: 78 Resp: 685
Ion Ratio Lower Upper
78 100
77 18.3 17.0 25.6
50 17.2 14.6 22.0

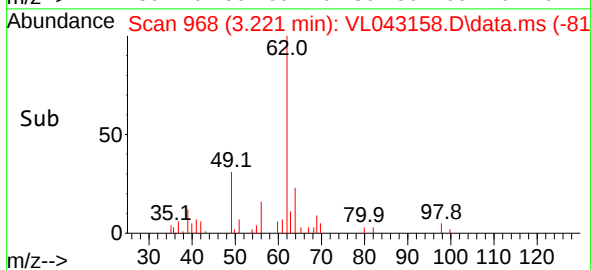
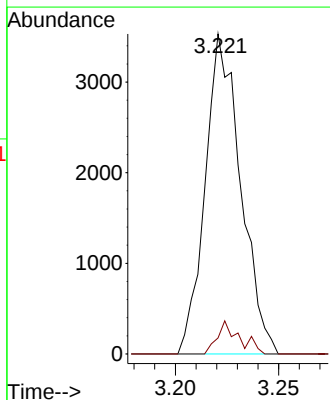
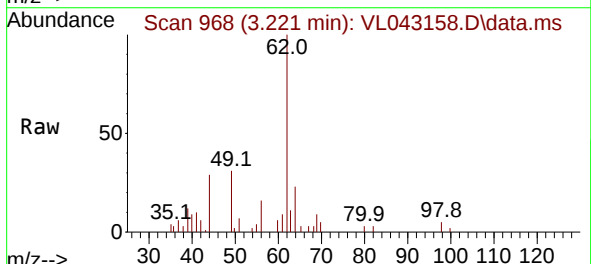
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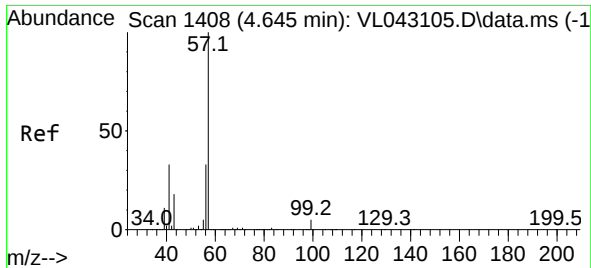
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#37
1,2-Dichloroethane
Concen: 0.216 ppbv
RT: 3.221 min Scan# 968
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

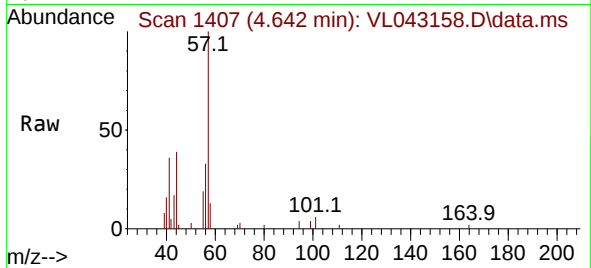
Tgt Ion: 62 Resp: 4215
Ion Ratio Lower Upper
62 100
98 6.4 5.8 8.6





#44
2,2,4-Trimethylpentane
Concen: 0.102 ppbv m
RT: 4.642 min Scan# 1408
Delta R.T. -0.003 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

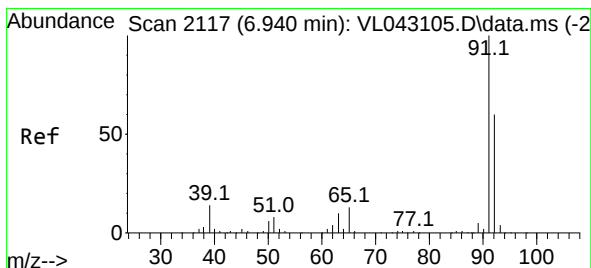
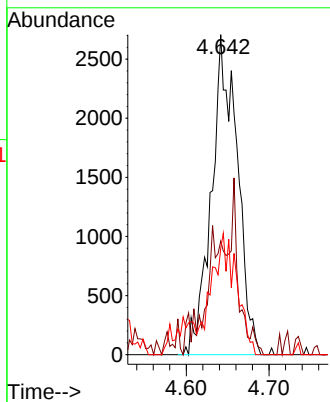
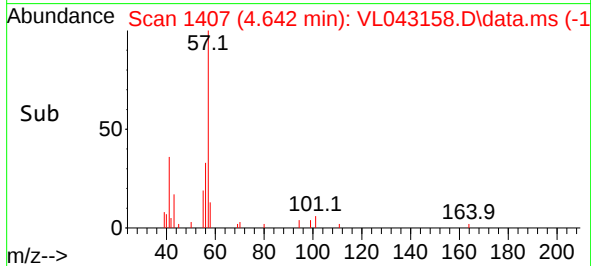
Instrument : MSVOA_1
ClientSampleId : 151-IA-2



Tgt Ion: 57 Resp: 586
Ion Ratio Lower Upper
57 100
41 0.0 26.3 39.5
56 45.6 25.9 38.9

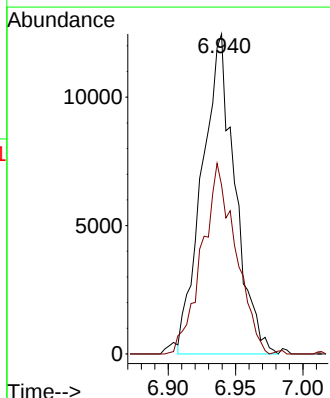
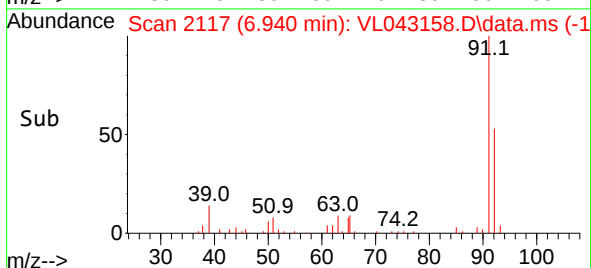
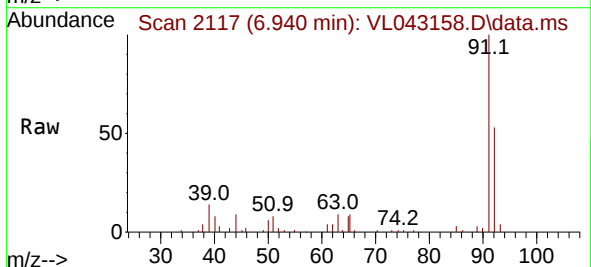
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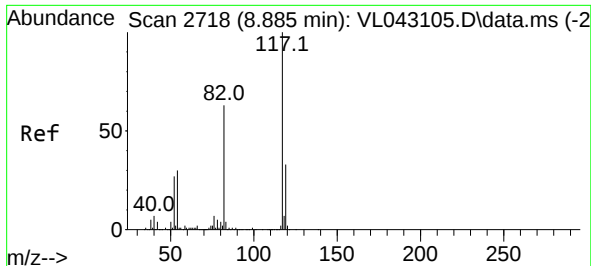
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#53
Toluene
Concen: 0.524 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

Tgt Ion: 91 Resp: 21107
Ion Ratio Lower Upper
91 100
92 61.7 48.8 73.2





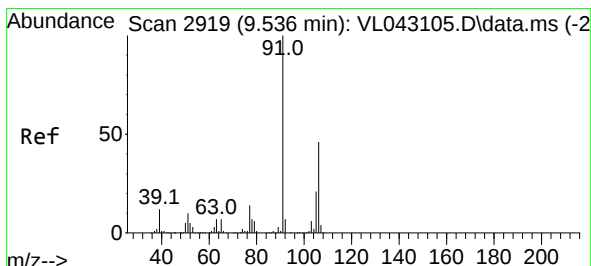
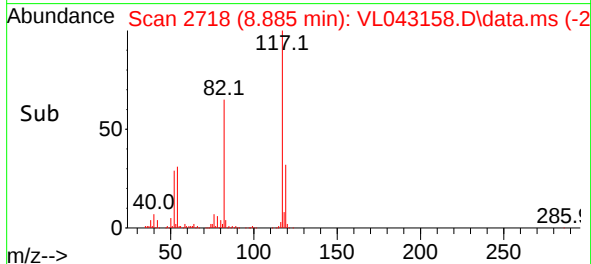
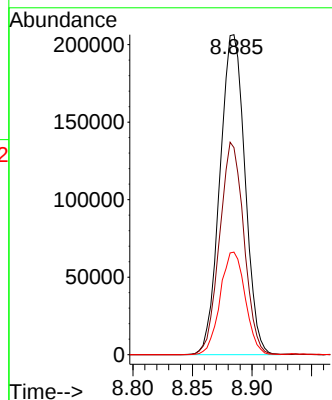
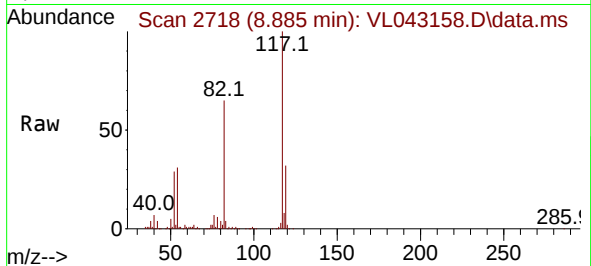
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2

Tgt Ion: 117 Resp: 30180
Ion Ratio Lower Upper
117 100
82 64.6 53.8 80.8
119 32.1 25.4 38.0

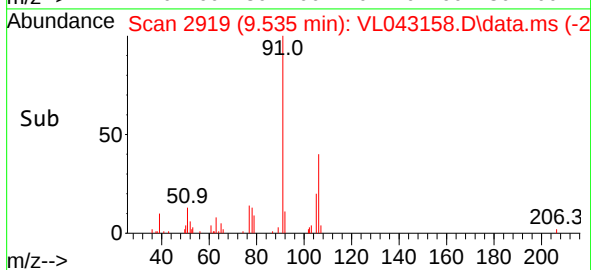
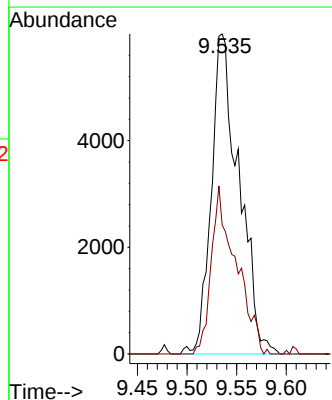
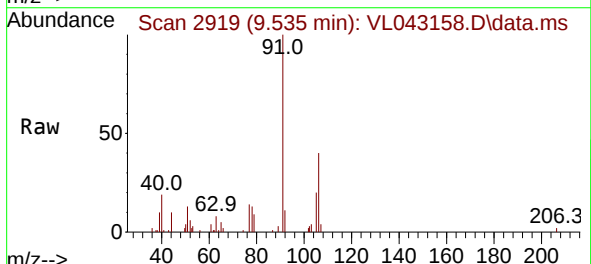
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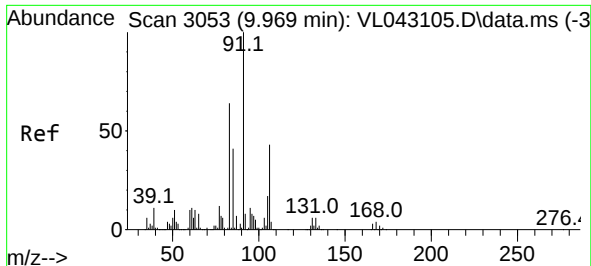
Reviewed By :Semsettin Yesilyurt 11/07/2025
Supervised By :Mahesh Dadoda 11/10/2025



#59
m/p-Xylene
Concen: 0.281 ppbv m
RT: 9.535 min Scan# 2919
Delta R.T. -0.000 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

Tgt Ion: 91 Resp: 11616
Ion Ratio Lower Upper
91 100
106 46.9 38.0 57.0





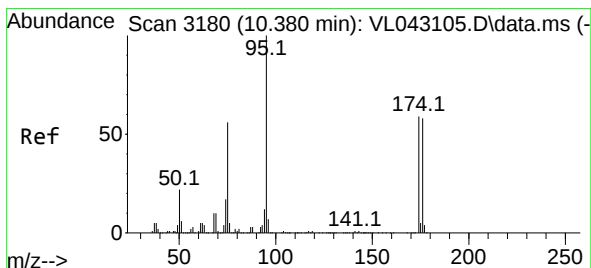
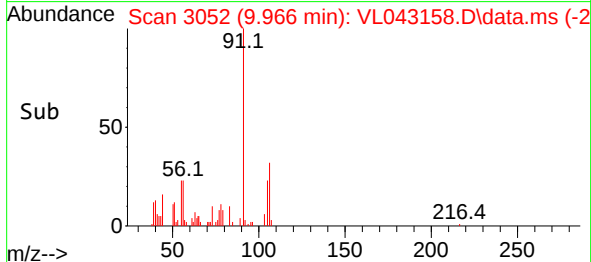
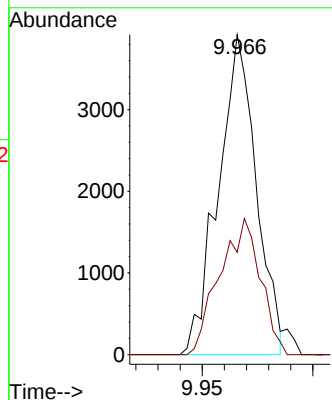
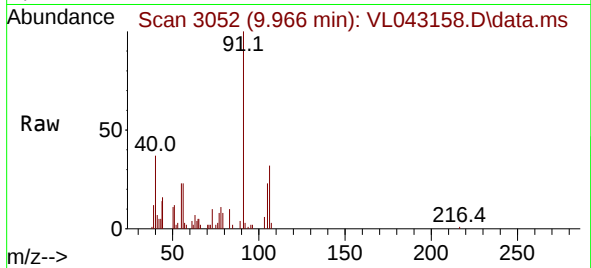
#60
o-Xylene
Concen: 0.114 ppbv
RT: 9.966 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

Instrument :
MSVOA_L
ClientSampleId :
151-IA-2

Tgt Ion: 91 Resp: 467
Ion Ratio Lower Upper
91 100
106 45.7 21.9 65.8

Manual Integrations
APPROVED

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



#68
1-Bromo-4-Fluorobenzene
Concen: 10.052 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL043158.D
Acq: 06 Nov 2025 09:42

Tgt Ion: 95 Resp: 235804
Ion Ratio Lower Upper
95 100
174 64.1 48.3 72.5
175 4.8 3.8 5.8

