

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
 Data File : VL043083.D
 Acq On : 09 Oct 2025 12:09
 Operator : SY/MD
 Sample : Q3320-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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

Quant Time: Oct 09 22:13:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	181836	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	493969	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	418241	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	322719	10.711	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.492	85	13689	0.447	ppbv	98
3) Chlorodifluoromethane	1.470	51	12816m	0.432	ppbv	
4) Chloromethane	1.528	50	7370	0.658	ppbv	97
9) Propene	1.483	41	12110	1.013	ppbv #	77
11) Trichlorofluoromethane	1.871	101	7176	0.228	ppbv	94
13) Ethanol	1.716	45	279631	644.253	ppbv	88
15) Acetone	1.829	43	177142	6.958	ppbv	99
17) tert-Butyl alcohol	2.036	59	4919	0.183	ppbv #	93
19) Isopropyl Alcohol	1.878	45	26869	2.203	ppbv #	1
20) Methylene Chloride	2.052	84	9689	0.872	ppbv	98
26) Hexane	2.816	57	12465	0.507	ppbv #	39
29) Chloroform	2.832	83	8469	0.202	ppbv	92
34) 2-Butanone	2.548	43	21887	0.653	ppbv	94
35) Carbon Tetrachloride	3.745	117	3705	0.091	ppbv #	84
36) Benzene	3.638	78	5219	0.111	ppbv #	87
38) Trichloroethene	4.528	130	1400m	0.071	ppbv	
50) 4-Methyl-2-Pentanone	5.729	43	9061m	0.222	ppbv	
51) 2-Hexanone	7.419	43	4173m	0.143	ppbv	
52) Tetrachloroethene	8.199	164	1024m	0.059	ppbv	
53) Toluene	6.911	91	7507m	0.158	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.950	83	1822m	0.047	ppbv	

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

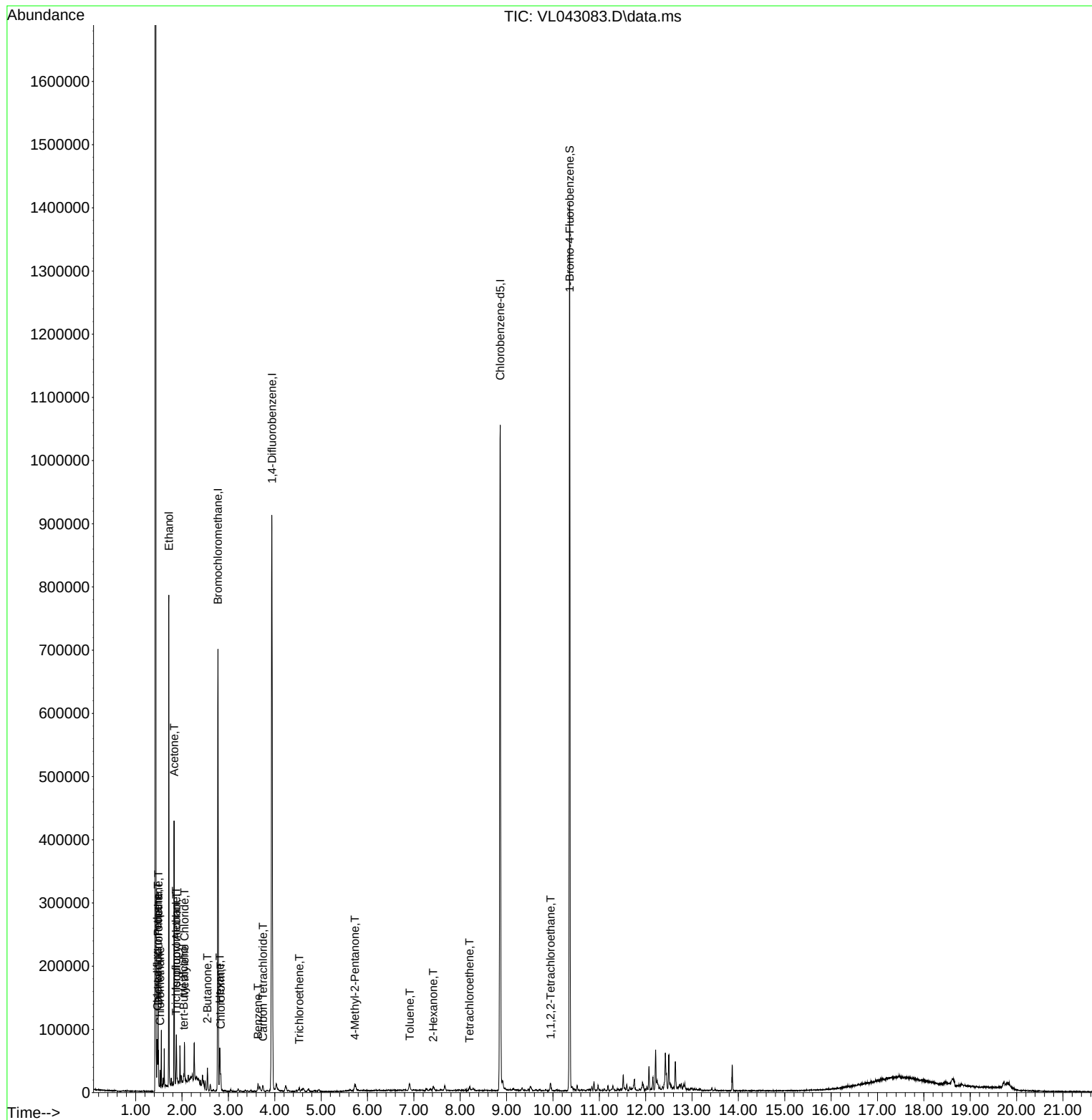
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100925\
Data File : VL043083.D
Acq On : 09 Oct 2025 12:09
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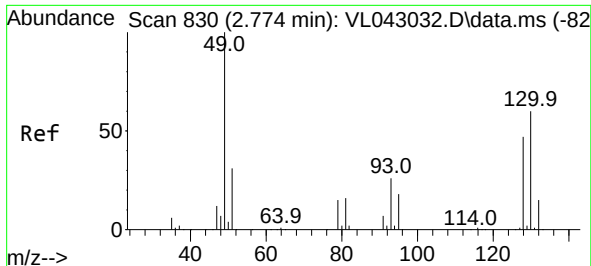
Instrument :
MSVOA_L
ClientSampleId :
IA1

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration





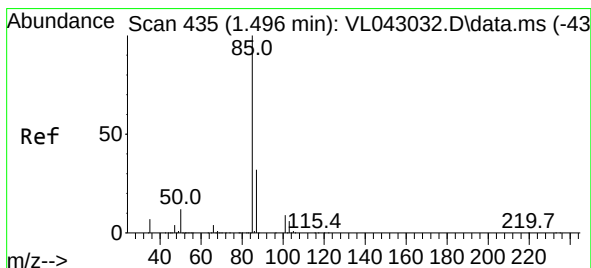
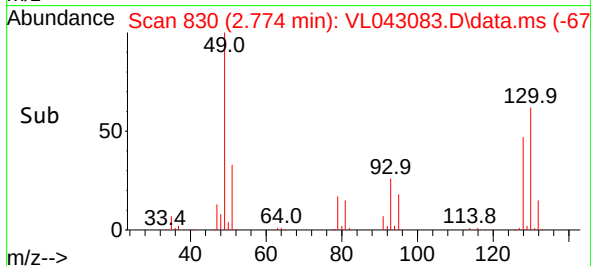
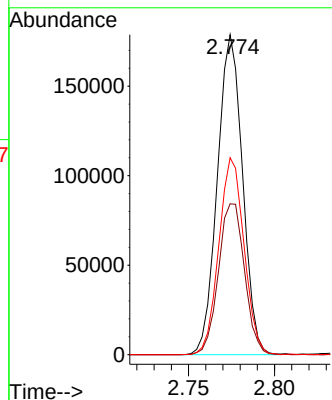
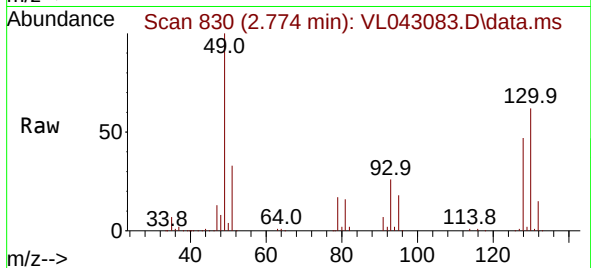
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 830
Delta R.T. 0.000 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 181830
Ion Ratio Lower Upper
49 100
128 49.0 24.1 72.2
130 61.8 31.4 94.3

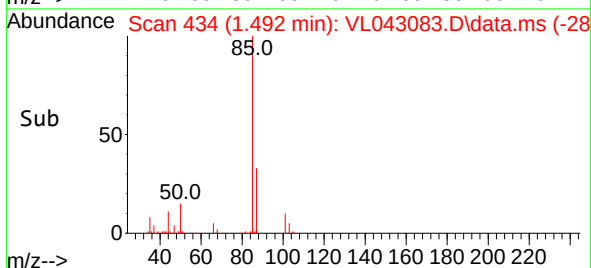
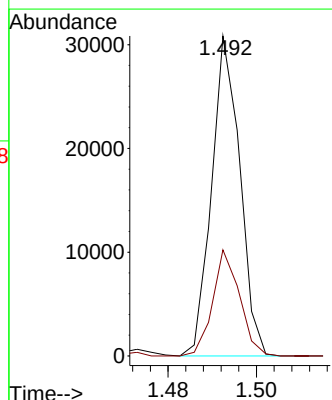
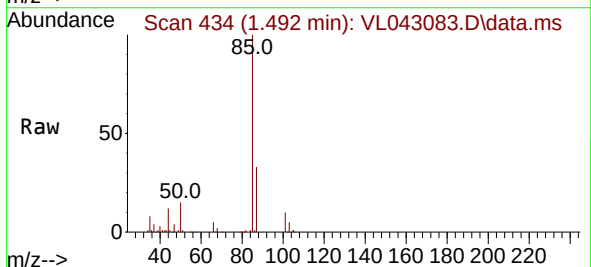
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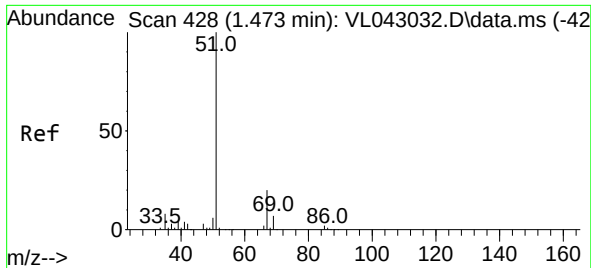
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#2
Dichlorodifluoromethane
Concen: 0.447 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.003 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

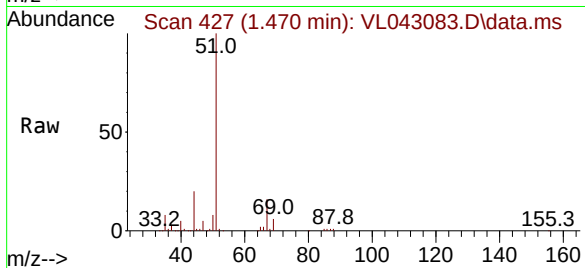
Tgt Ion: 85 Resp: 13689
Ion Ratio Lower Upper
85 100
87 33.1 25.8 38.6





#3
Chlorodifluoromethane
Concen: 0.432 ppbv m
RT: 1.470 min Scan# 428
Delta R.T. -0.003 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

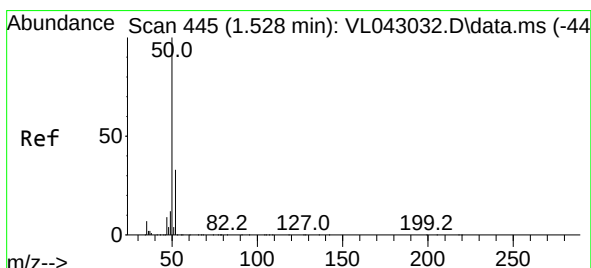
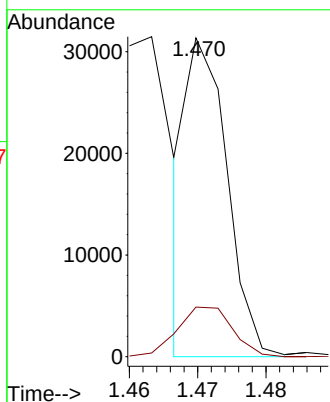
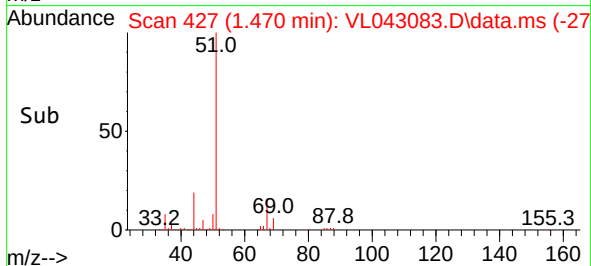
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 12810
Ion Ratio Lower Upper
51 100
67 1.5 15.1 22.7

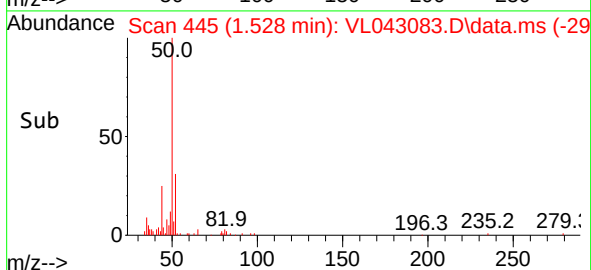
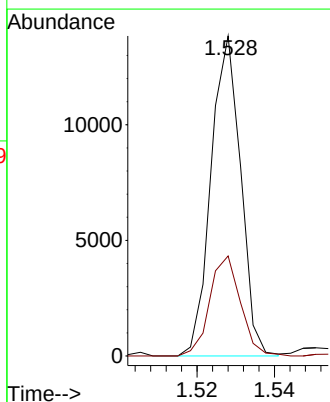
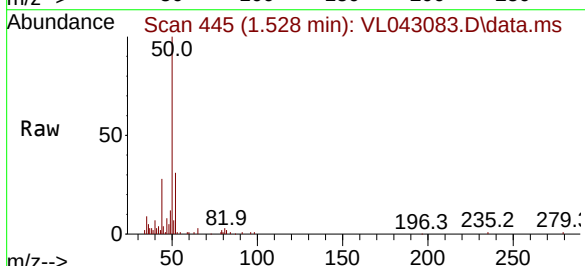
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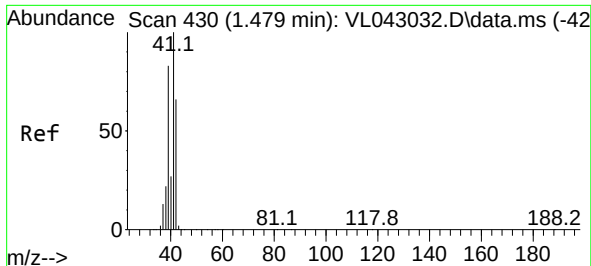
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#4
Chloromethane
Concen: 0.658 ppbv
RT: 1.528 min Scan# 445
Delta R.T. 0.000 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

Tgt Ion: 50 Resp: 7370
Ion Ratio Lower Upper
50 100
52 31.3 26.2 39.2





#9

Propene

Concen: 1.013 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043083.D

Acq: 09 Oct 2025 12:09

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 12110

Ion Ratio Lower Upper

41 100

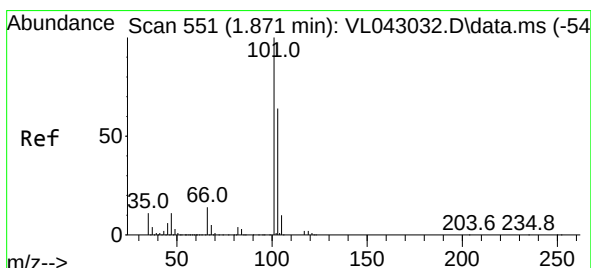
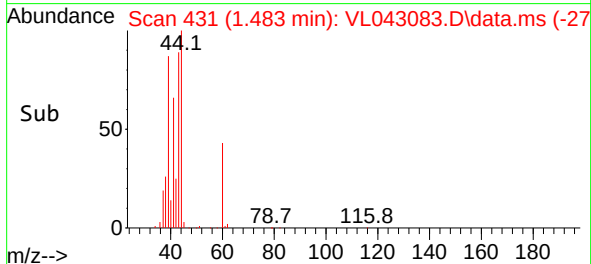
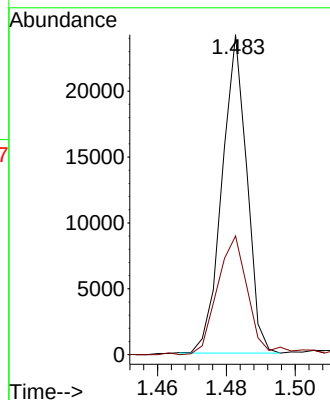
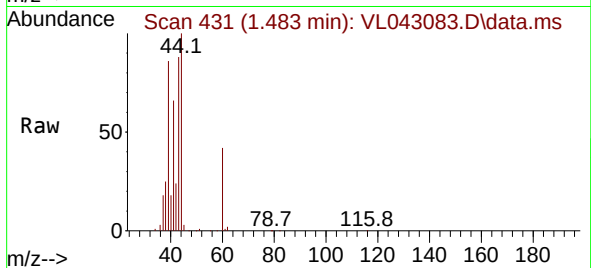
42 48.0 53.3 79.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 10/10/2025

Supervised By :Mahesh Dadoda 10/10/2025



#11

Trichlorofluoromethane

Concen: 0.228 ppbv

RT: 1.871 min Scan# 551

Delta R.T. 0.000 min

Lab File: VL043083.D

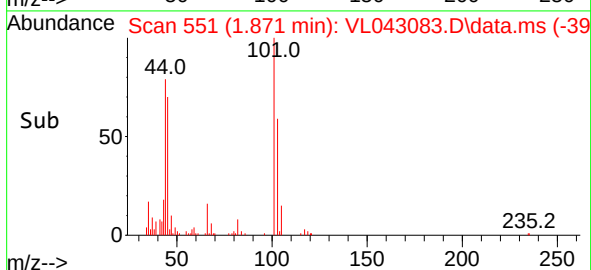
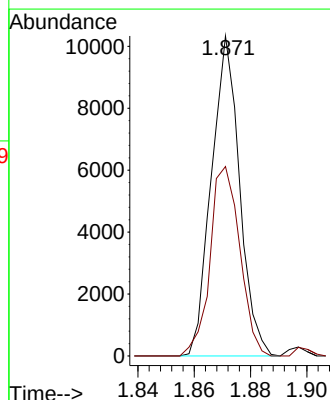
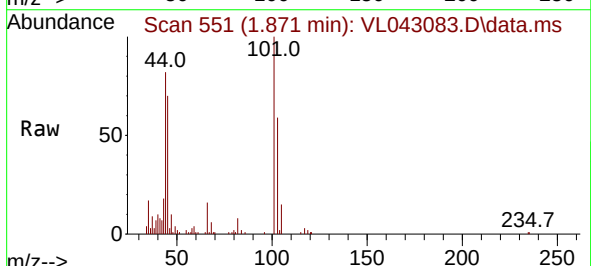
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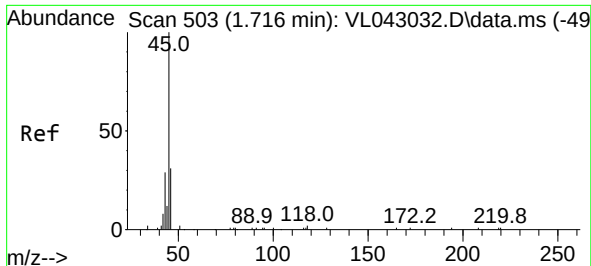
Tgt Ion:101 Resp: 7176

Ion Ratio Lower Upper

101 100

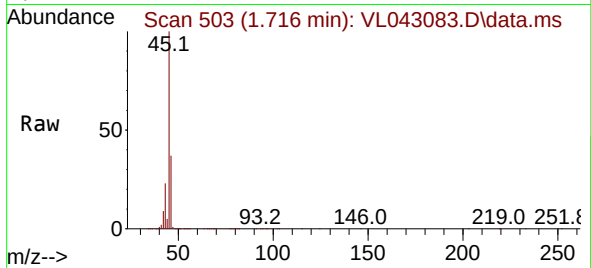
103 59.2 51.1 76.7





#13
Ethanol
Concen: 644.253 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.000 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

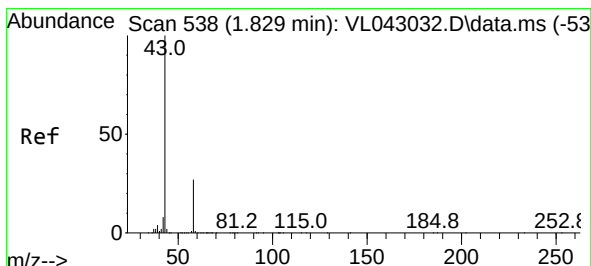
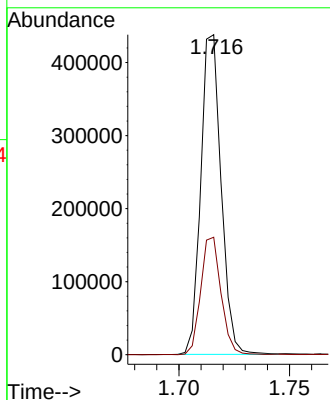
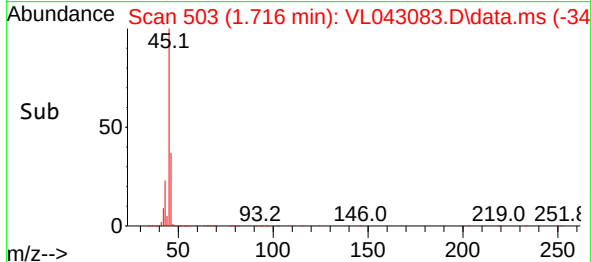
Instrument :
MSVOA_L
ClientSampleId :
IA1



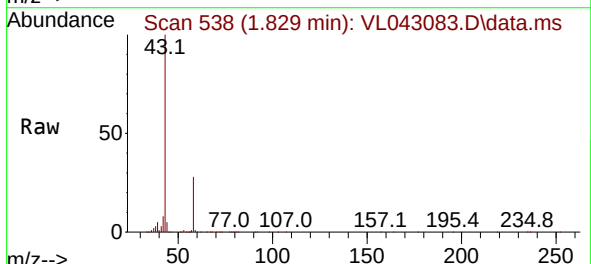
Tgt Ion: 45 Resp: 27963
Ion Ratio Lower Upper
45 100
46 36.9 17.8 71.4

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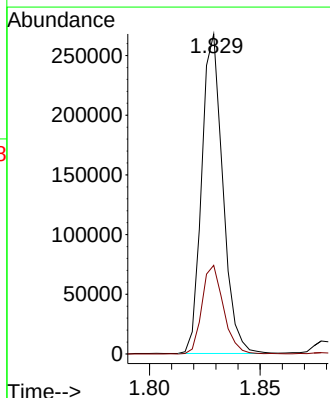
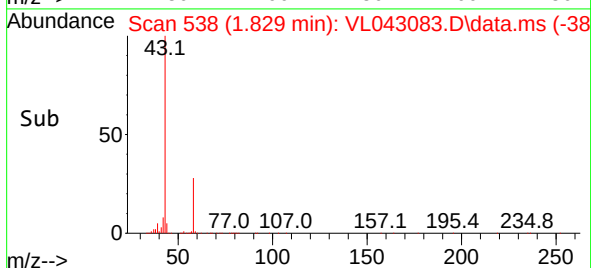
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

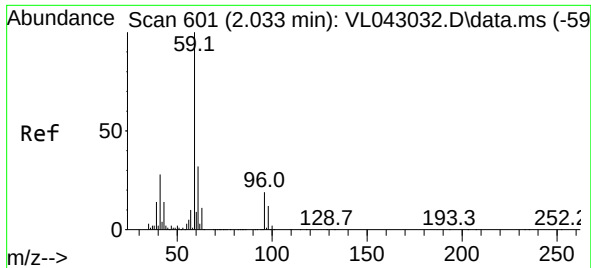


#15
Acetone
Concen: 6.958 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.000 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09



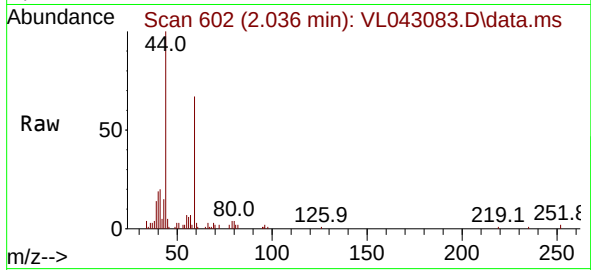
Tgt Ion: 43 Resp: 177142
Ion Ratio Lower Upper
43 100
58 28.3 22.2 33.4





#17
tert-Butyl alcohol
Concen: 0.183 ppbv
RT: 2.036 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

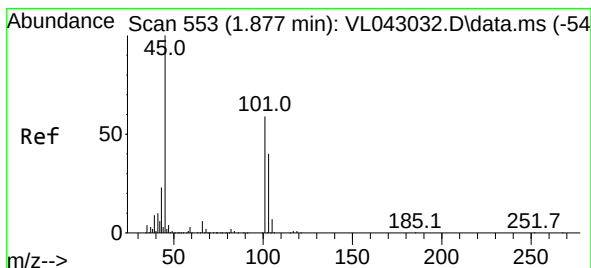
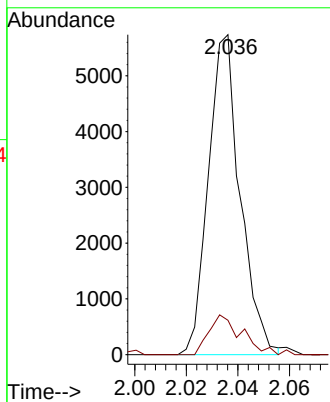
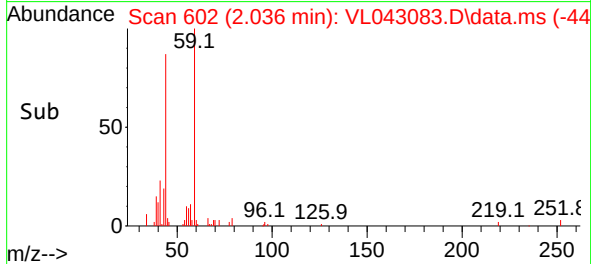
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 59 Resp: 4919
Ion Ratio Lower Upper
59 100
57 13.1 8.5 12.7

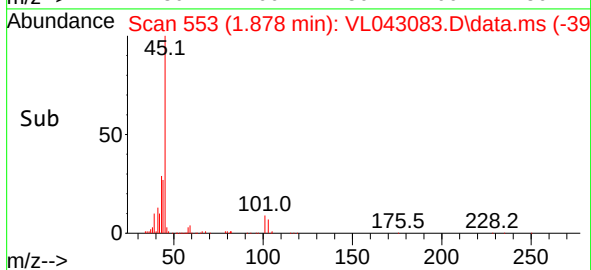
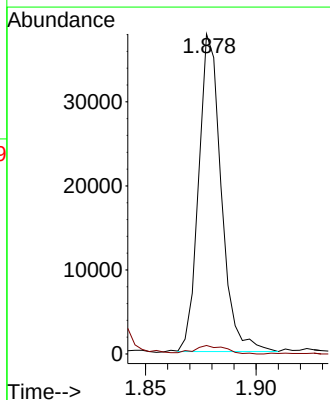
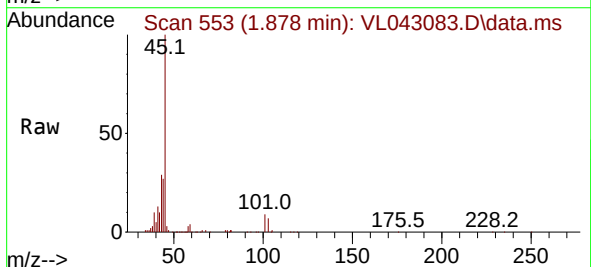
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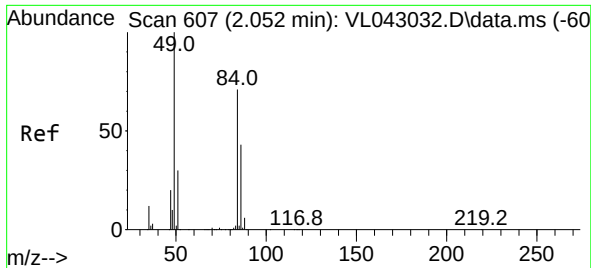
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#19
Isopropyl Alcohol
Concen: 2.203 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.000 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

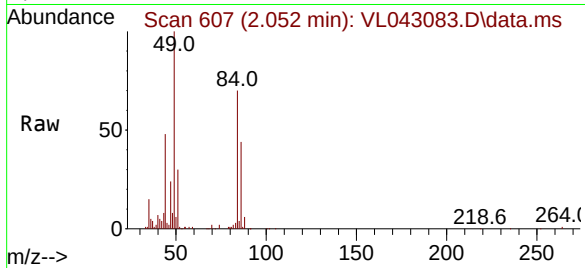
Tgt Ion: 45 Resp: 26869
Ion Ratio Lower Upper
45 100
58 186.6 42.3 63.5





#20
Methylene Chloride
Concen: 0.872 ppbv
RT: 2.052 min Scan# 607
Delta R.T. 0.000 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

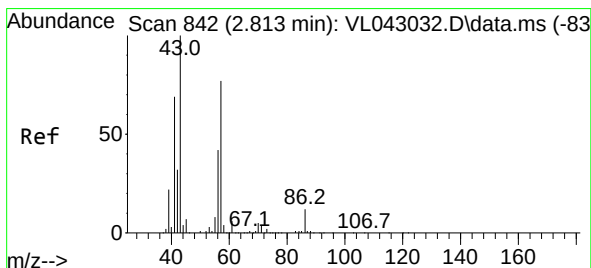
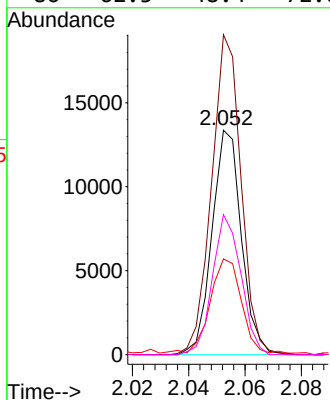
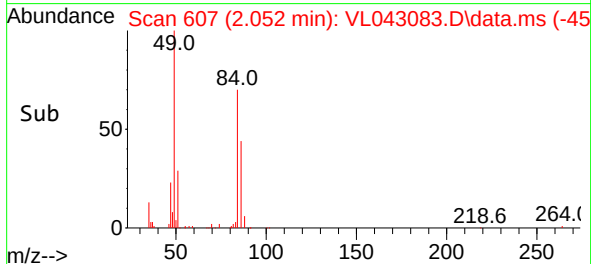
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:	84	Resp:	968
Ion	Ratio	Lower	Upper
84	100		
49	141.6	112.5	168.7
51	41.1	34.2	51.2
86	62.3	48.4	72.6

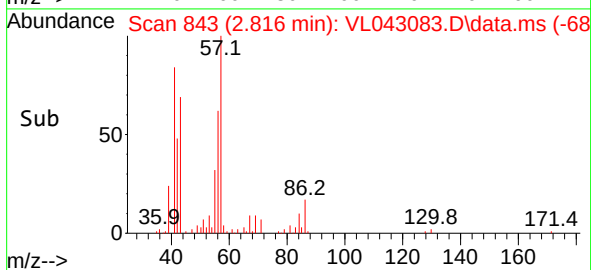
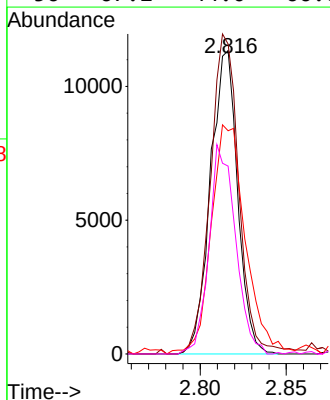
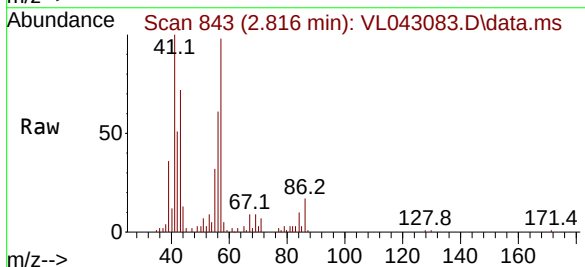
Manual Integrations
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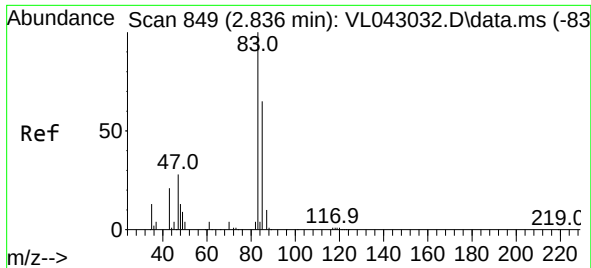
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#26
Hexane
Concen: 0.507 ppbv
RT: 2.816 min Scan# 843
Delta R.T. 0.003 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

Tgt Ion:	57	Resp:	12465
Ion	Ratio	Lower	Upper
57	100		
41	111.3	76.1	114.1
43	98.9	201.4	302.0#
56	67.2	44.0	66.0#





#29

Chloroform

Concen: 0.202 ppbv

RT: 2.832 min Scan# 849

Delta R.T. -0.003 min

Lab File: VL043083.D

Acq: 09 Oct 2025 12:09

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 83 Resp: 8469

Ion Ratio Lower Upper

83 100

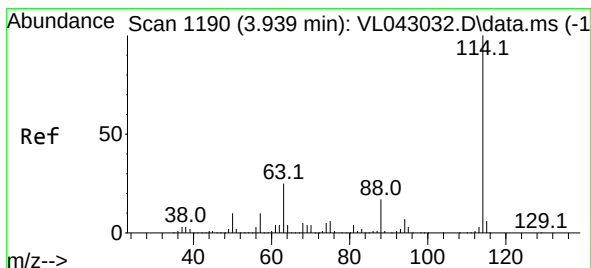
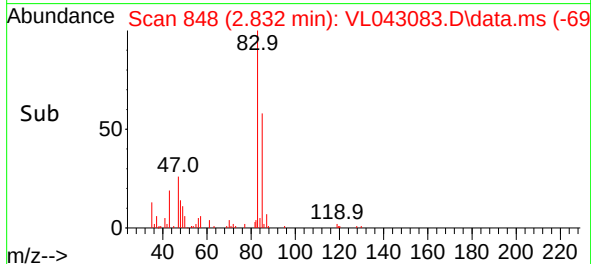
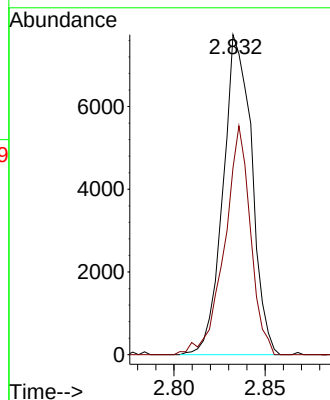
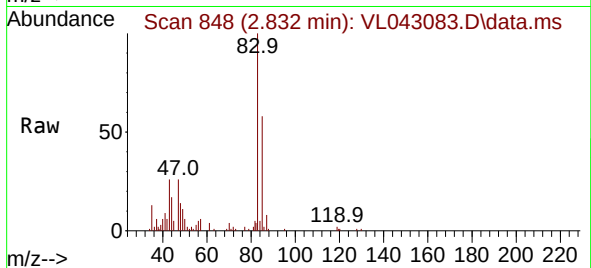
85 58.4 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025

Supervised By :Mahesh Dadoda 10/10/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.939 min Scan# 1190

Delta R.T. 0.000 min

Lab File: VL043083.D

Acq: 09 Oct 2025 12:09

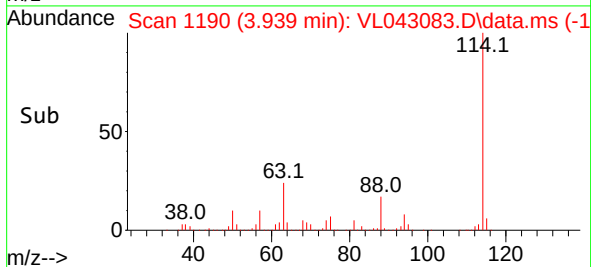
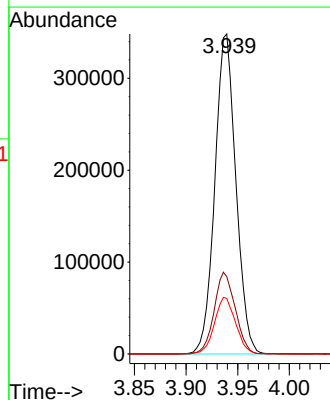
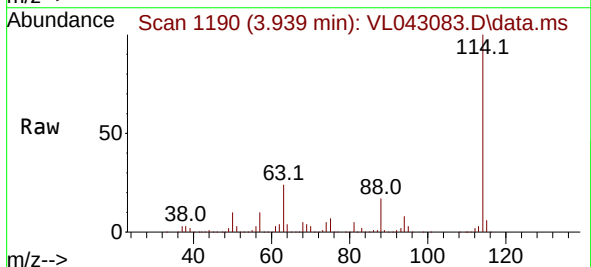
Tgt Ion:114 Resp: 493969

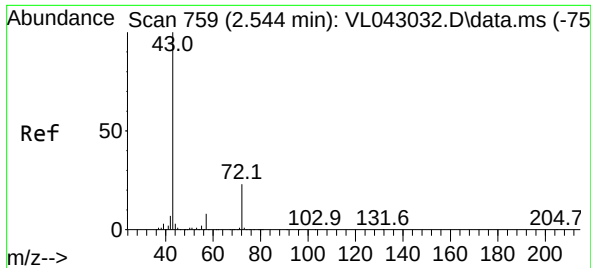
Ion Ratio Lower Upper

114 100

63 25.6 19.4 29.2

88 17.7 13.9 20.9





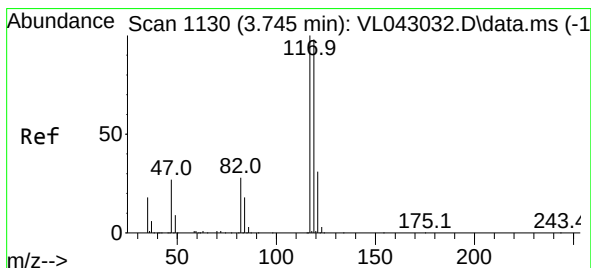
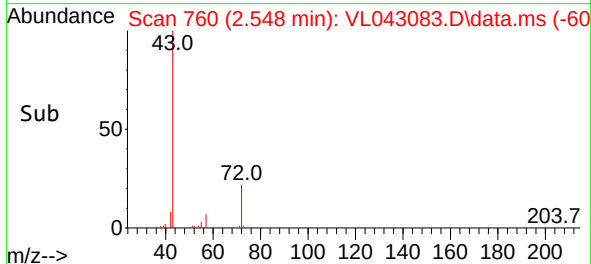
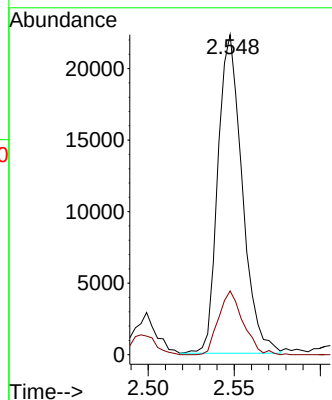
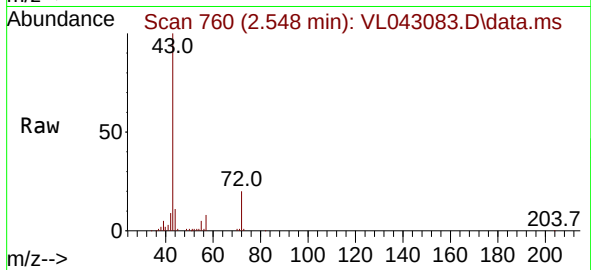
#34
2-Butanone
Concen: 0.653 ppbv
RT: 2.548 min Scan# 759
Delta R.T. 0.003 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 2188
Ion Ratio Lower Upper
43 100
72 20.3 18.4 27.6

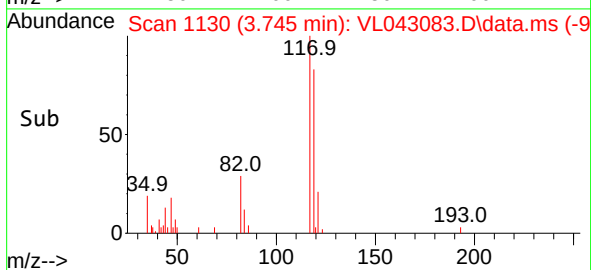
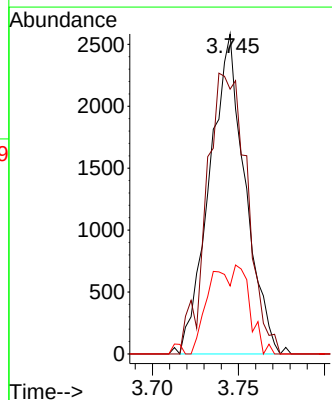
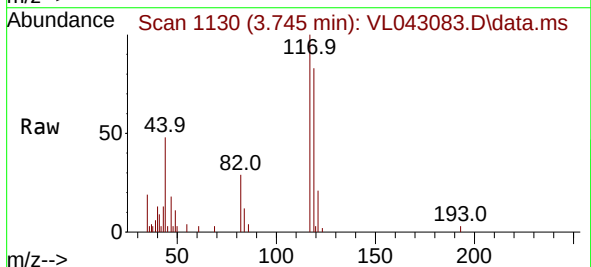
Manual Integrations
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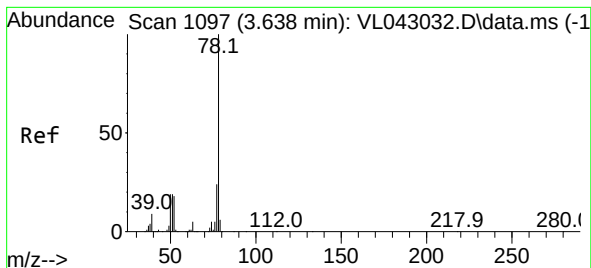
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#35
Carbon Tetrachloride
Concen: 0.091 ppbv
RT: 3.745 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

Tgt Ion:117 Resp: 3705
Ion Ratio Lower Upper
117 100
119 82.7 78.2 117.4
121 21.2 24.8 37.2#





#36

Benzene

Concen: 0.111 ppbv

RT: 3.638 min Scan# 1097

Delta R.T. 0.000 min

Lab File: VL043083.D

Acq: 09 Oct 2025 12:09

Instrument :

MSVOA_L

ClientSampleId :

IA1

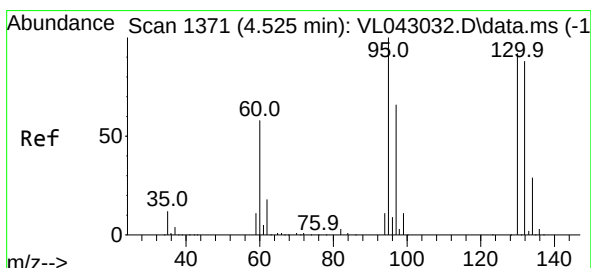
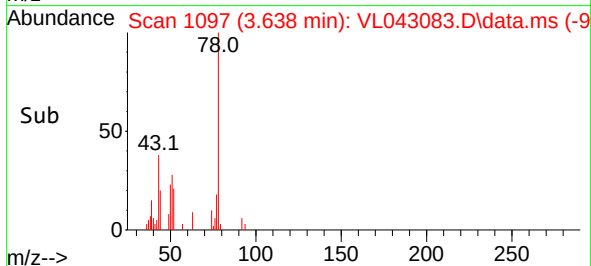
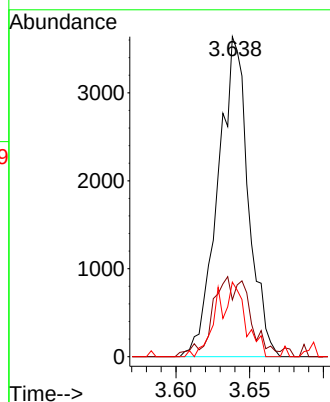
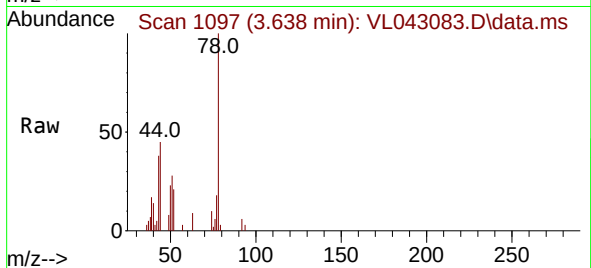
Tgt Ion: 78 Resp: 5219

Ion	Ratio	Lower	Upper
78	100		
77	16.4	19.2	28.8
50	23.3	14.9	22.3

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



#38

Trichloroethene

Concen: 0.071 ppbv m

RT: 4.528 min Scan# 1372

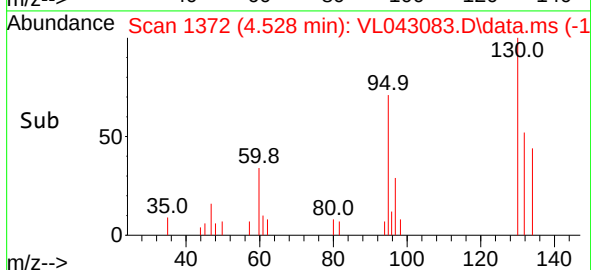
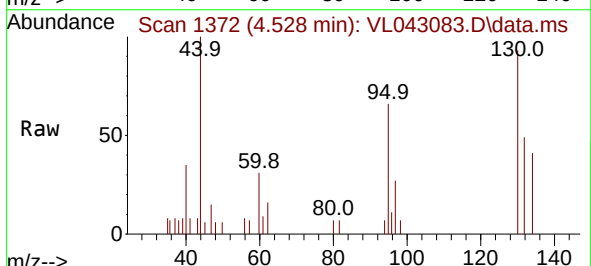
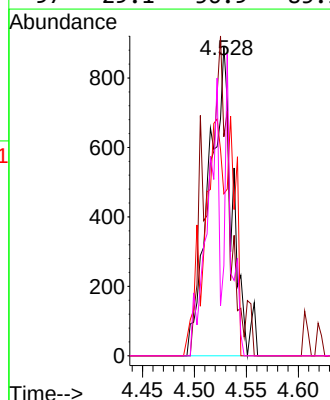
Delta R.T. 0.003 min

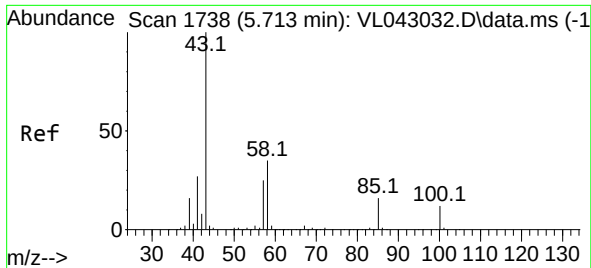
Lab File: VL043083.D

Acq: 09 Oct 2025 12:09

Tgt Ion:130 Resp: 1400

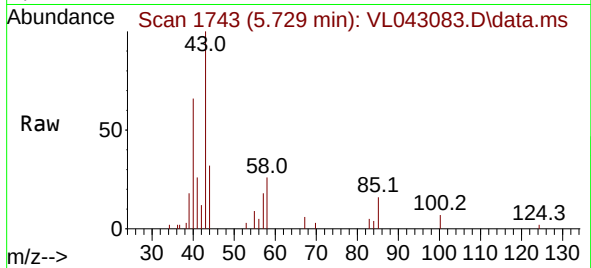
Ion	Ratio	Lower	Upper
130	100		
95	70.7	86.4	129.6
132	52.4	75.7	113.5
97	29.1	56.9	85.3





#50
4-Methyl-2-Pentanone
Concen: 0.222 ppbv m
RT: 5.729 min Scan# 1738
Delta R.T. 0.016 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

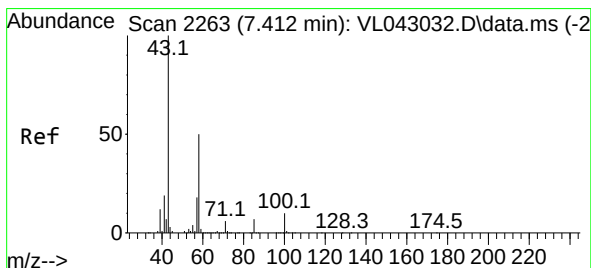
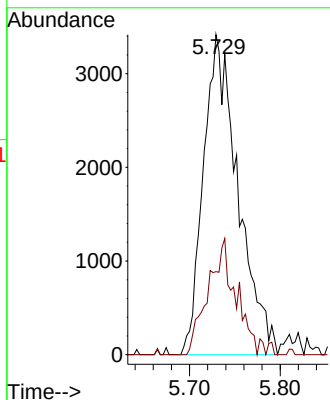
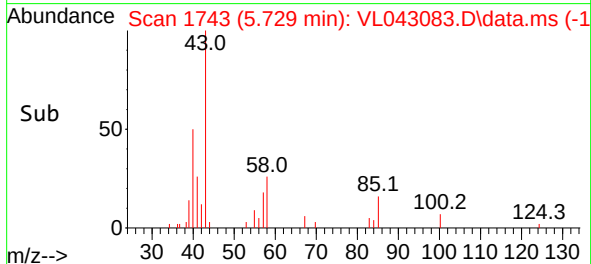
Instrument : MSVOA_L
ClientSampleId : 1A1



Tgt Ion: 43 Resp: 906
Ion Ratio Lower Upper
43 100
58 0.0 28.7 43.1

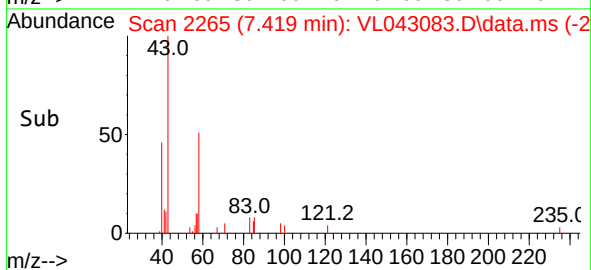
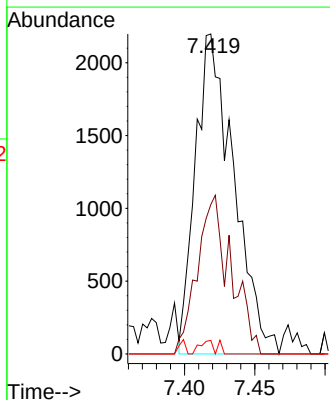
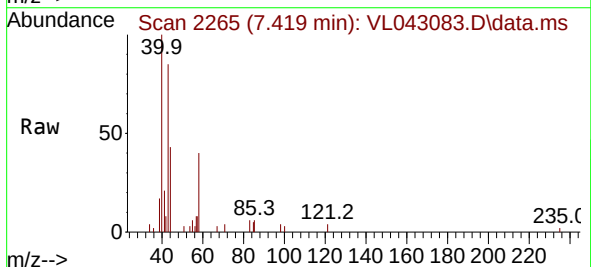
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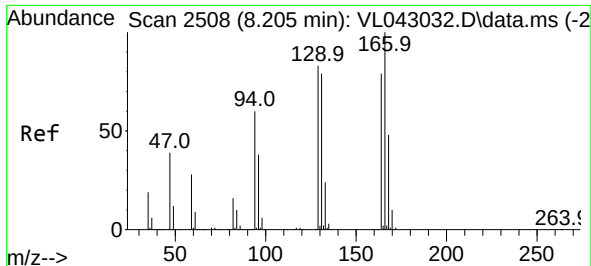
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#51
2-Hexanone
Concen: 0.143 ppbv m
RT: 7.419 min Scan# 2265
Delta R.T. 0.007 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

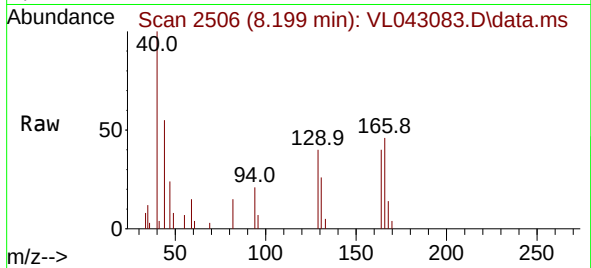
Tgt Ion: 43 Resp: 4173
Ion Ratio Lower Upper
43 100
58 43.3 39.1 58.7
98 0.0 0.5 0.7





#52
Tetrachloroethene
Concen: 0.059 ppbv m
RT: 8.199 min Scan# 2108
Delta R.T. -0.006 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

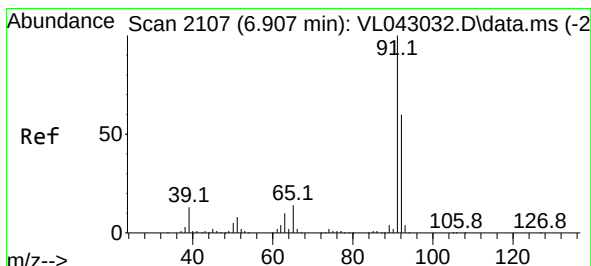
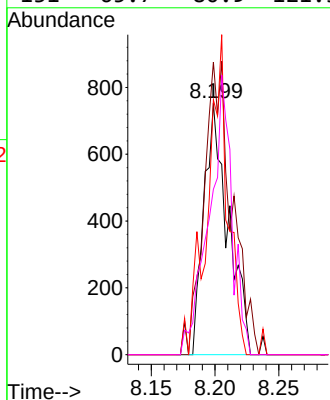
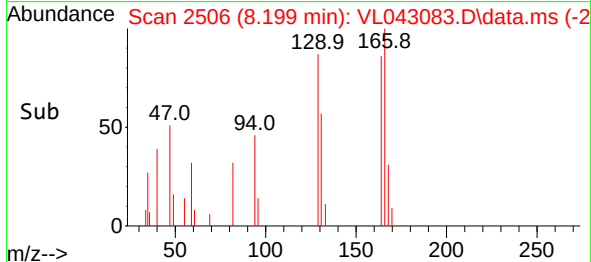
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 1024
Ion Ratio Lower Upper
164 100
166 116.3 101.8 152.8
129 101.3 84.5 126.7
131 65.7 80.9 121.3#

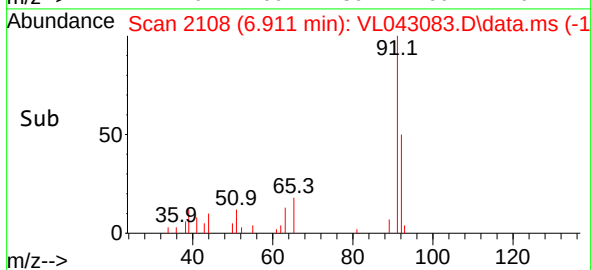
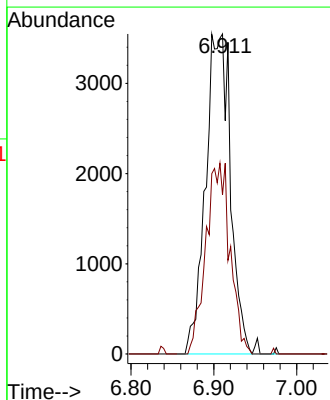
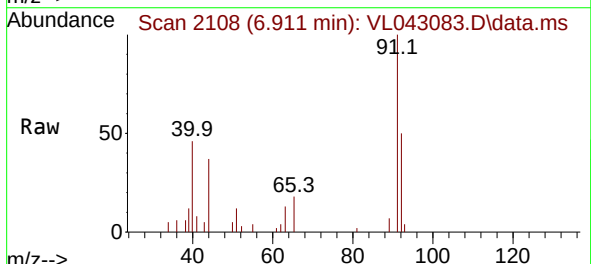
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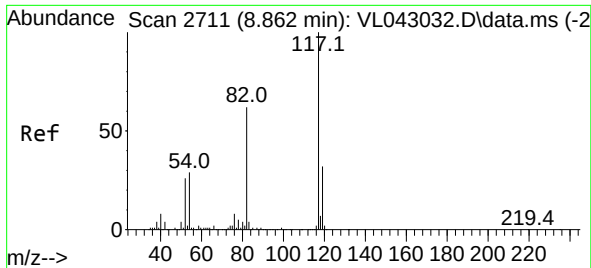
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#53
Toluene
Concen: 0.158 ppbv m
RT: 6.911 min Scan# 2108
Delta R.T. 0.003 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

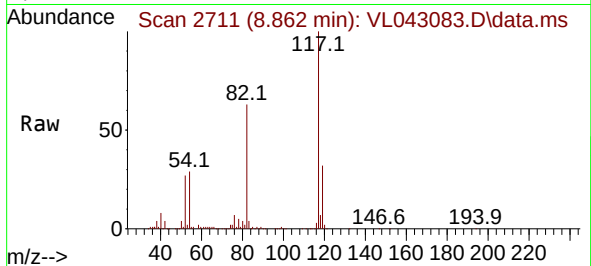
Tgt Ion: 91 Resp: 7507
Ion Ratio Lower Upper
91 100
92 57.3 47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.862 min Scan# 2711
Delta R.T. 0.000 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

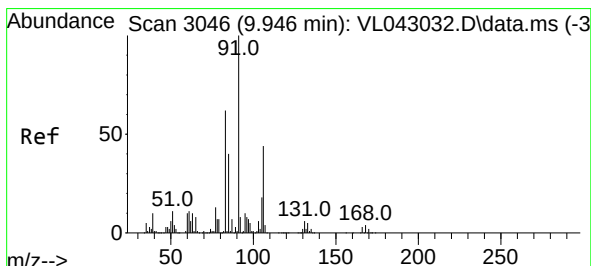
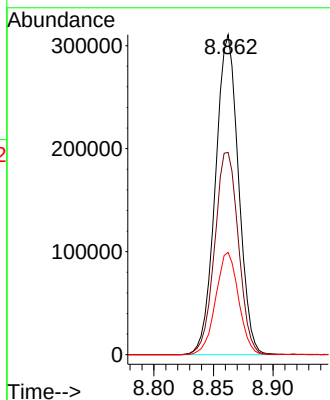
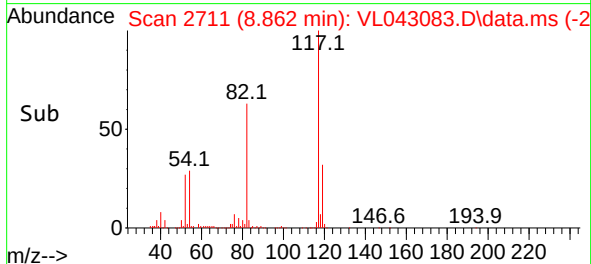
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 41824
Ion Ratio Lower Upper
117 100
82 65.2 53.0 79.6
119 31.9 25.4 38.2

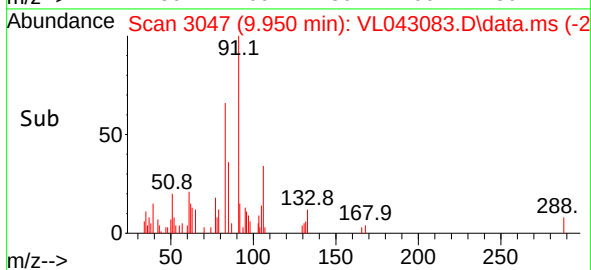
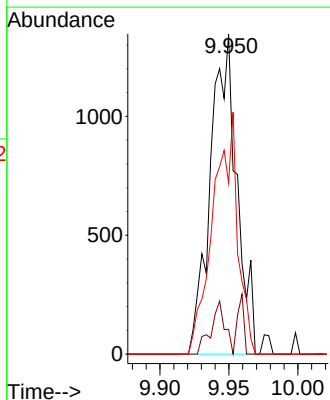
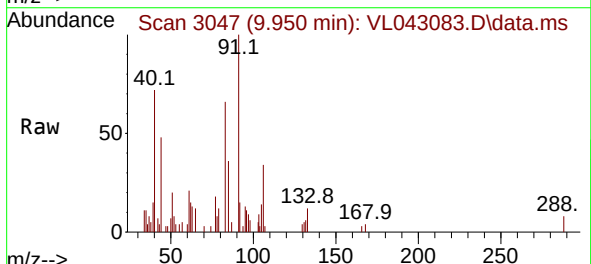
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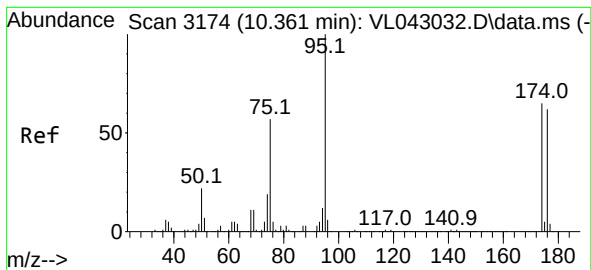
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#63
1,1,2,2-Tetrachloroethane
Concen: 0.047 ppbv m
RT: 9.950 min Scan# 3047
Delta R.T. 0.003 min
Lab File: VL043083.D
Acq: 09 Oct 2025 12:09

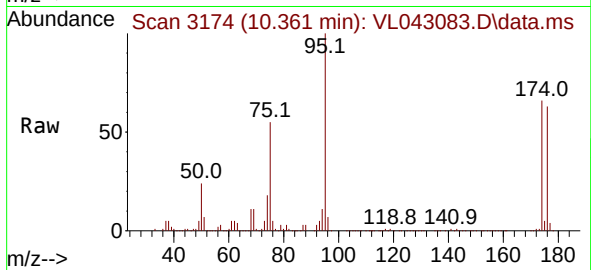
Tgt Ion: 83 Resp: 1822
Ion Ratio Lower Upper
83 100
131 0.0 4.7 14.1#
85 0.0 32.0 96.2#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.711 ppbv
 RT: 10.361 min Scan# 3174
 Delta R.T. 0.000 min
 Lab File: VL043083.D
 Acq: 09 Oct 2025 12:09

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 95 Resp: 322719
 Ion Ratio Lower Upper
 95 100
 174 65.5 52.3 78.5
 175 4.7 3.8 5.8

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

