

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041125\
 Data File : VL042318.D
 Acq On : 11 Apr 2025 13:52
 Operator : SY/MD
 Sample : Q1665-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B10-2-3242025DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025

Quant Time: Apr 11 22:59:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

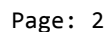
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

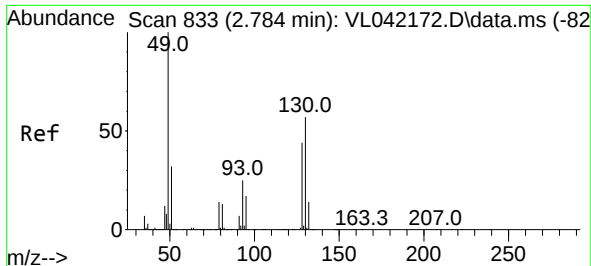
Internal Standards						
1) Bromochloromethane	2.787	49	183054	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	442590	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	380933	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	304733	9.741	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	11308	0.418	ppbv	97
4) Chloromethane	1.531	50	6464	0.585	ppbv #	84
9) Propene	1.486	41	56403m	4.457	ppbv	
10) Heptane	4.981	43	6238m	0.185	ppbv	
11) Trichlorofluoromethane	1.877	101	5756	0.219	ppbv	90
13) Ethanol	1.722	45	1578950	1319.793	ppbv	94
15) Acetone	1.832	43	2101760	82.096	ppbv #	77
17) tert-Butyl alcohol	2.042	59	14809m	0.464	ppbv	
19) Isopropyl Alcohol	1.887	45	1201240	83.161	ppbv #	60
20) Methylene Chloride	2.059	84	15544	1.630	ppbv	90
26) Hexane	2.826	57	69684	2.715	ppbv	93
29) Chloroform	2.848	83	51580	1.373	ppbv	99
34) 2-Butanone	2.557	43	853001	26.579	ppbv	99
35) Carbon Tetrachloride	3.768	117	3050m	0.088	ppbv	
36) Benzene	3.654	78	26349	0.601	ppbv	94
52) Tetrachloroethene	8.218	164	626m	0.036	ppbv	
53) Toluene	6.936	91	26345m	0.507	ppbv	
59) m/p-Xylene	9.529	91	10928m	0.202	ppbv	
60) o-Xylene	9.962	91	6311m	0.117	ppbv	
74) 1,2,4-Trimethylbenzene	11.535	105	8971	0.132	ppbv #	75

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

Manual Integrations

Quant Time: Apr 11 22:59:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





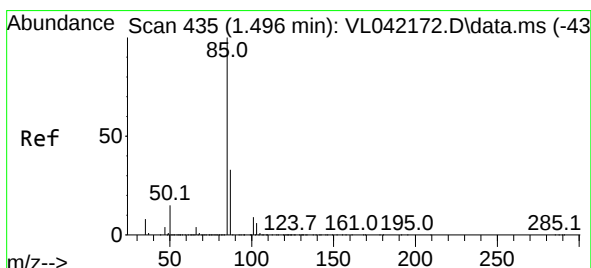
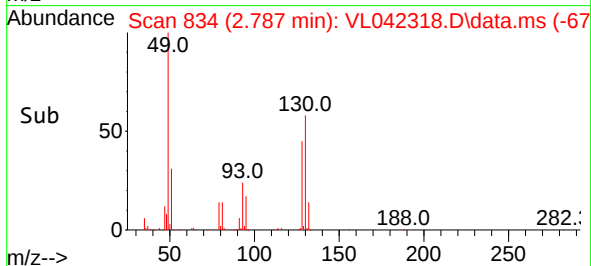
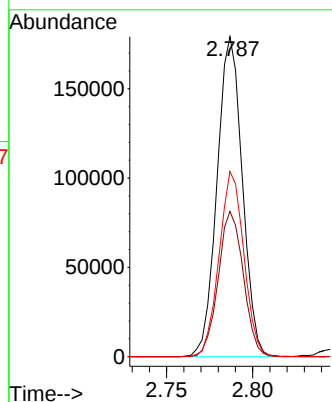
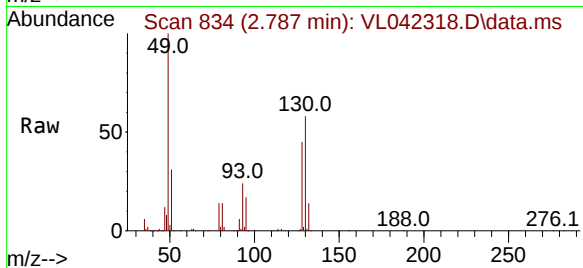
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DUP

Tgt Ion: 49 Resp: 183054
Ion Ratio Lower Upper
49 100
128 45.1 22.9 68.5
130 56.7 28.8 86.4

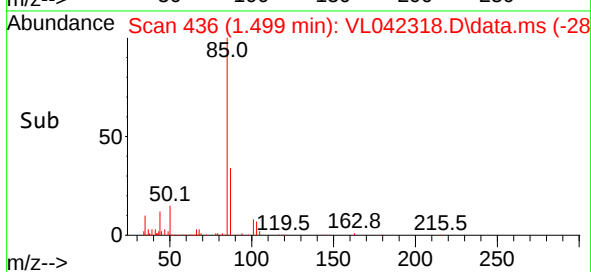
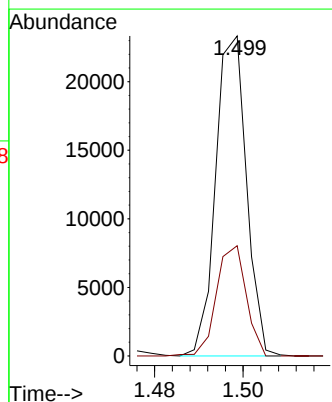
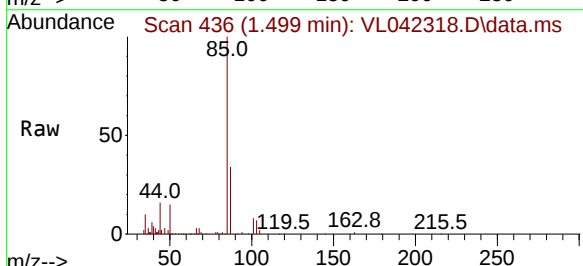
Manual Integrations
APPROVED

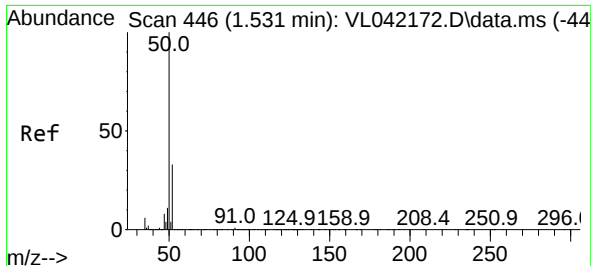
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#2
Dichlorodifluoromethane
Concen: 0.418 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

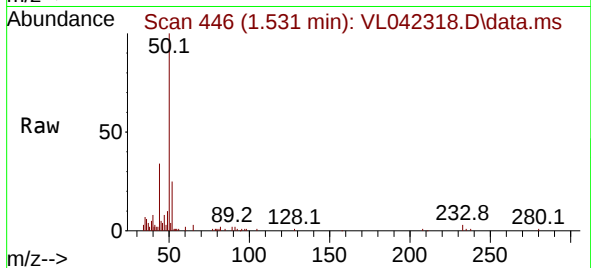
Tgt Ion: 85 Resp: 11308
Ion Ratio Lower Upper
85 100
87 34.5 26.1 39.1





#4
Chloromethane
Concen: 0.585 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

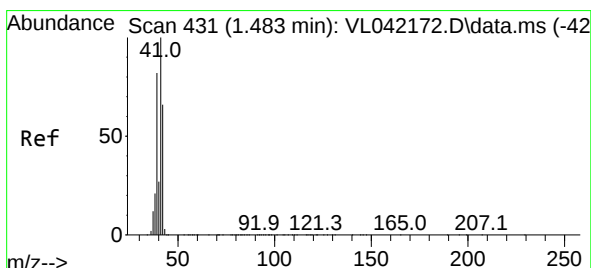
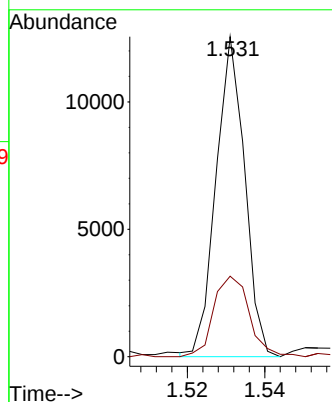
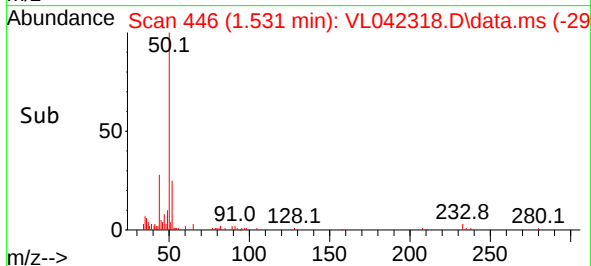
Instrument : MSVOA_L
ClientSampleId : IA-B10-2-3242025DUP



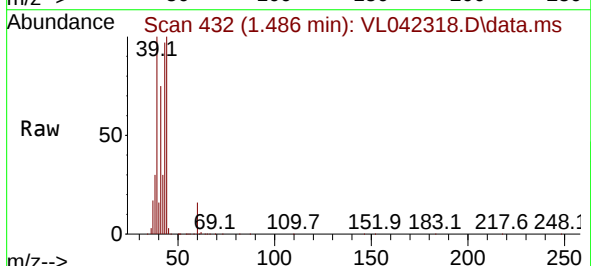
Tgt Ion: 50 Resp: 6464
Ion Ratio Lower Upper
50 100
52 23.7 26.1 39.1

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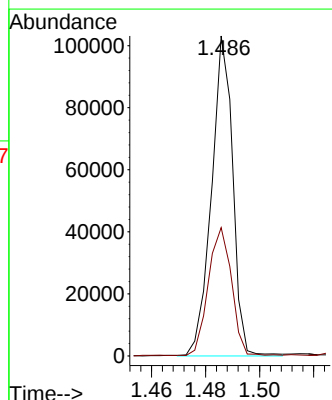
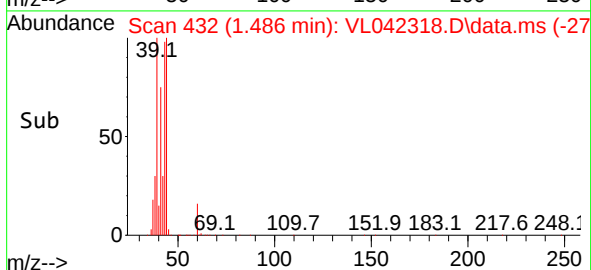
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

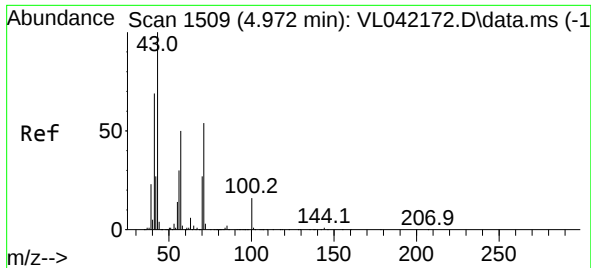


#9
Propene
Concen: 4.457 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52



Tgt Ion: 41 Resp: 56403
Ion Ratio Lower Upper
41 100
42 128.5 55.4 83.2





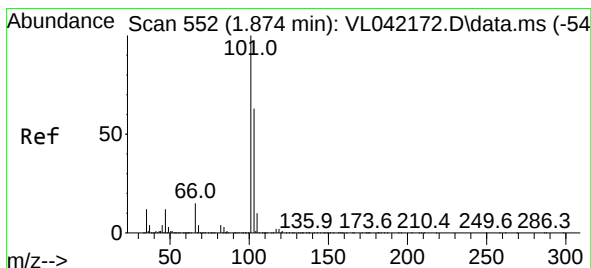
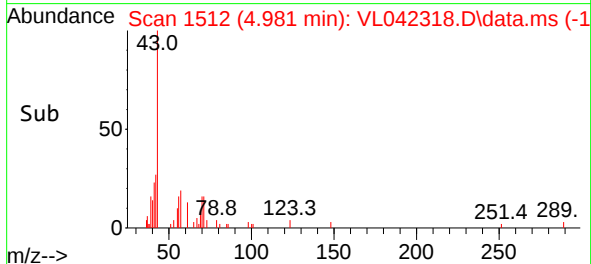
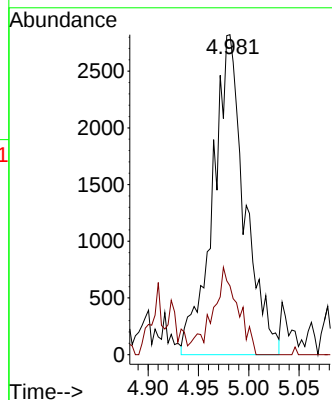
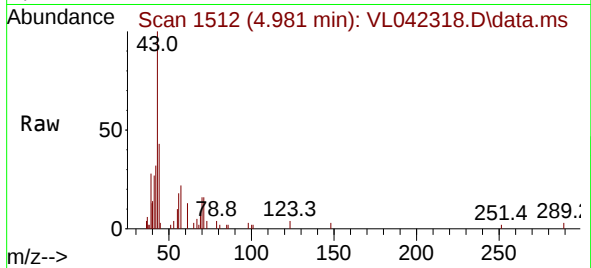
#10
Heptane
Concen: 0.185 ppbv m
RT: 4.981 min Scan# 1509
Delta R.T. 0.009 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DUP

Tgt Ion: 43 Resp: 6238
Ion Ratio Lower Upper
43 100
57 21.3 39.4 59.2

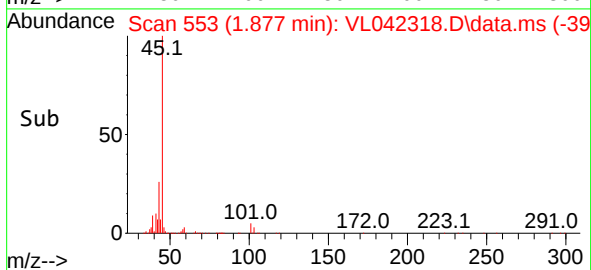
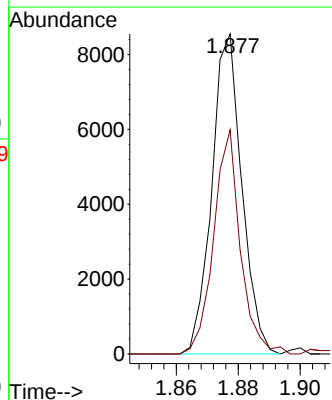
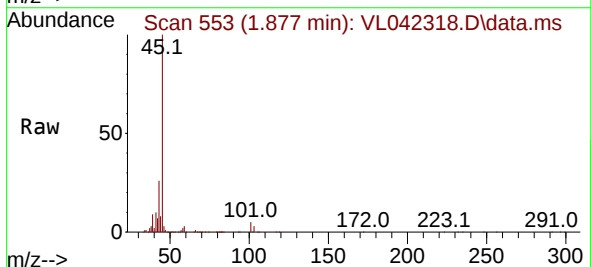
Manual Integrations
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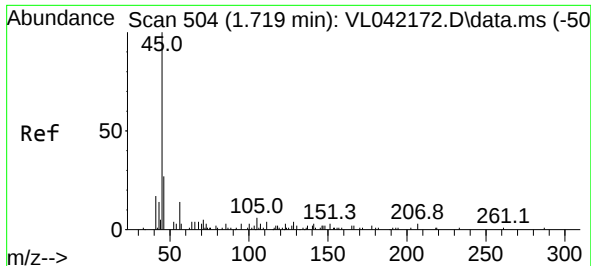
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#11
Trichlorofluoromethane
Concen: 0.219 ppbv
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

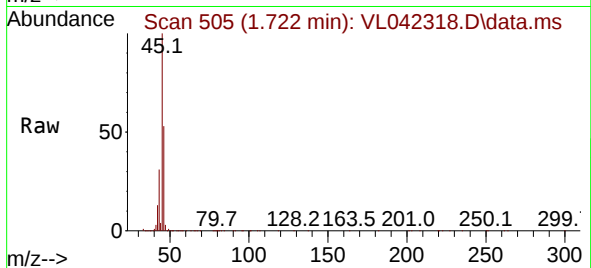
Tgt Ion:101 Resp: 5756
Ion Ratio Lower Upper
101 100
103 70.1 50.2 75.2





#13
Ethanol
Concen: 1319.793 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

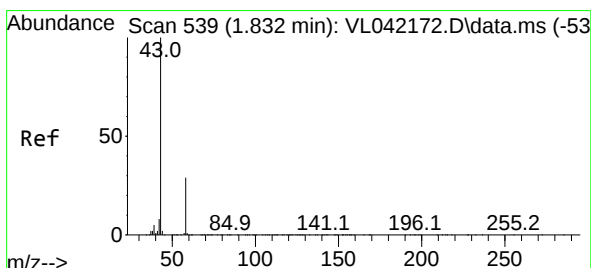
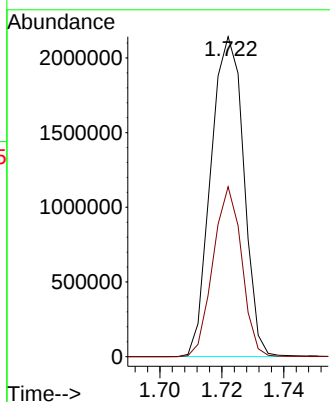
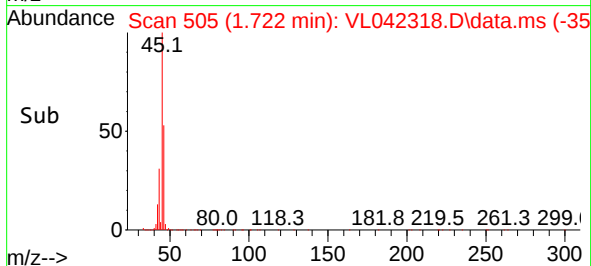
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DUP



Tgt Ion: 45 Resp: 1578950
Ion Ratio Lower Upper
45 100
46 46.4 20.2 80.8

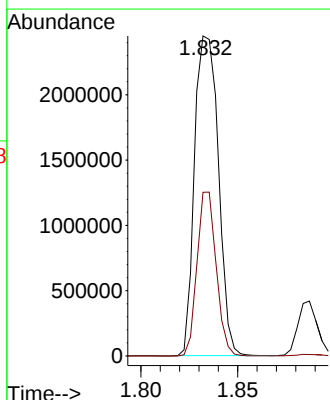
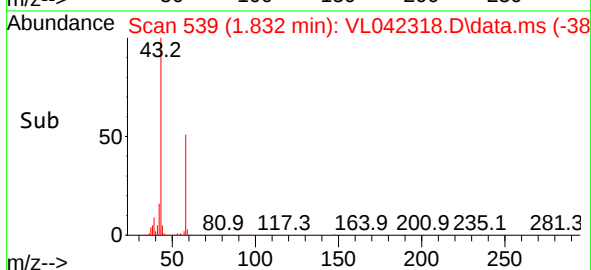
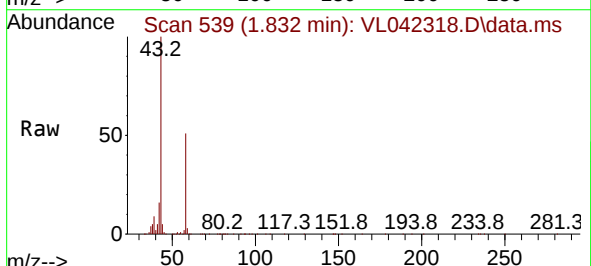
Manual Integrations
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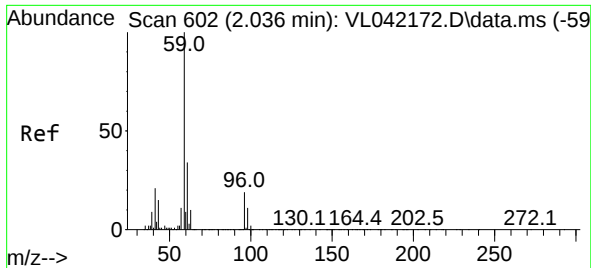
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#15
Acetone
Concen: 82.096 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

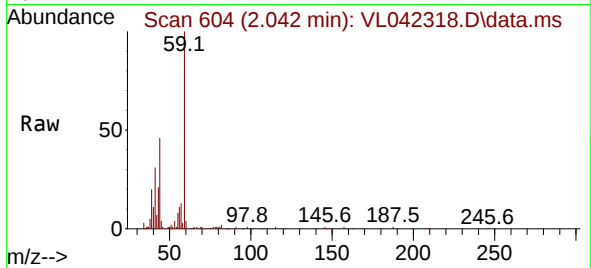
Tgt Ion: 43 Resp: 2101760
Ion Ratio Lower Upper
43 100
58 41.3 23.2 34.8#





#17
tert-Butyl alcohol
Concen: 0.464 ppbv m
RT: 2.042 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

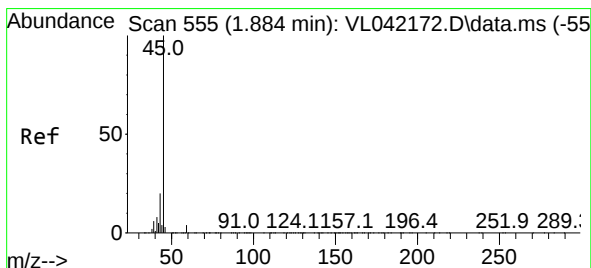
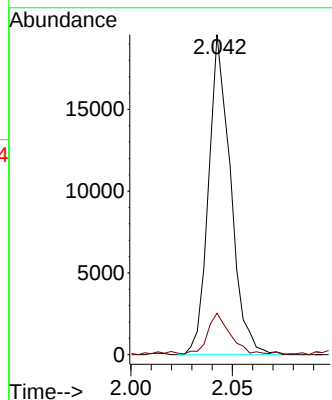
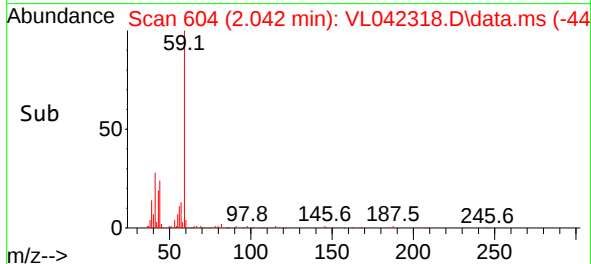
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DUP



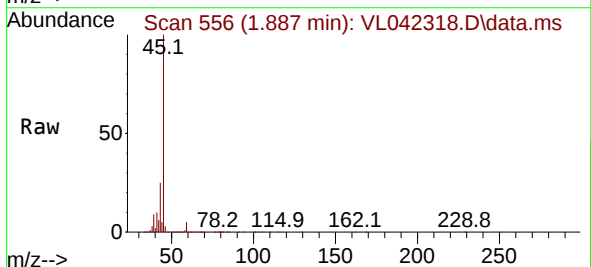
Tgt Ion: 59 Resp: 14809
Ion Ratio Lower Upper
59 100
57 30.4 8.9 13.3

Manual Integrations
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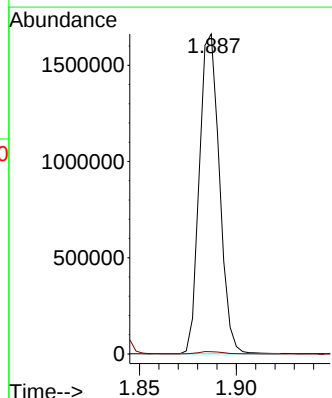
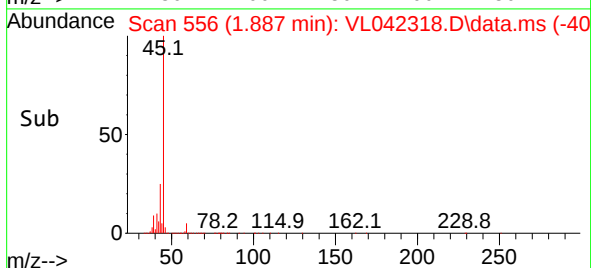
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025

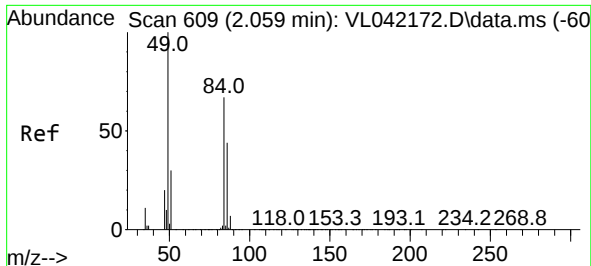


#19
Isopropyl Alcohol
Concen: 83.161 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52



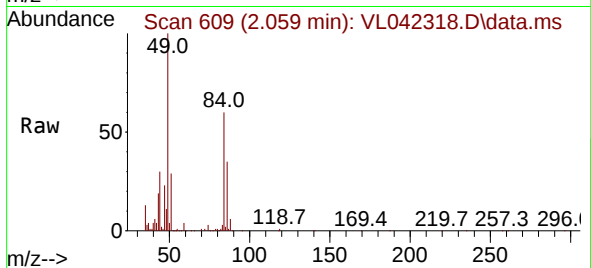
Tgt Ion: 45 Resp: 1201240
Ion Ratio Lower Upper
45 100
58 72.3 36.9 55.3





#20
Methylene Chloride
Concen: 1.630 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Instrument : MSVOA_L
ClientSampleId : IA-B10-2-3242025DUP

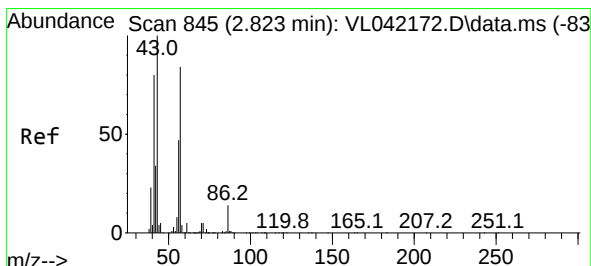
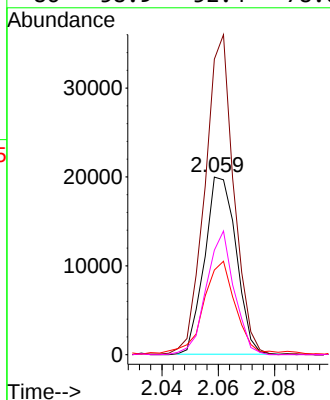
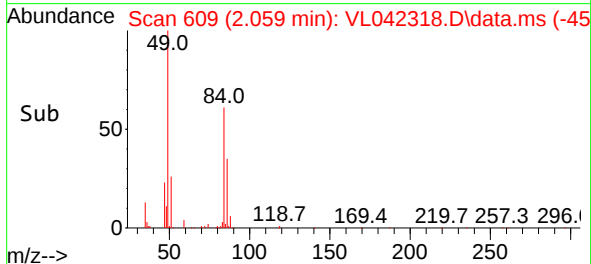


Tgt Ion: 84 Resp: 15544

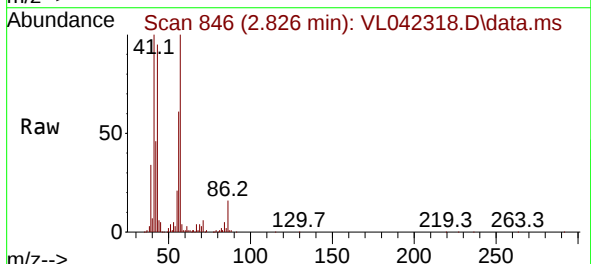
Ion	Ratio	Lower	Upper
84	100		
49	166.8	120.2	180.4
51	46.4	37.4	56.0
86	58.9	52.4	78.6

Manual Integrations
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Supervised By :Mahesh Dadoda 04/17/2025

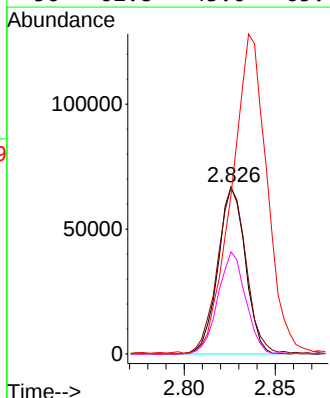
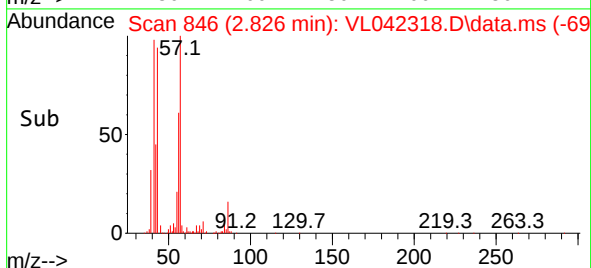


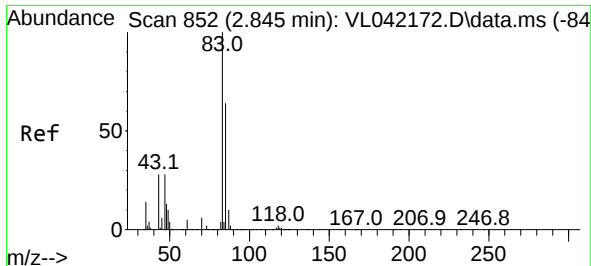
#26
Hexane
Concen: 2.715 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52



Tgt Ion: 57 Resp: 69684

Ion	Ratio	Lower	Upper
57	100		
41	105.3	76.6	114.8
43	249.9	207.8	311.8
56	62.8	43.6	65.4





#29

Chloroform

Concen: 1.373 ppbv

RT: 2.848 min Scan# 852

Delta R.T. 0.003 min

Lab File: VL042318.D

Acq: 11 Apr 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-2-3242025DUP

Tgt Ion: 83 Resp: 51580

Ion Ratio Lower Upper

83 100

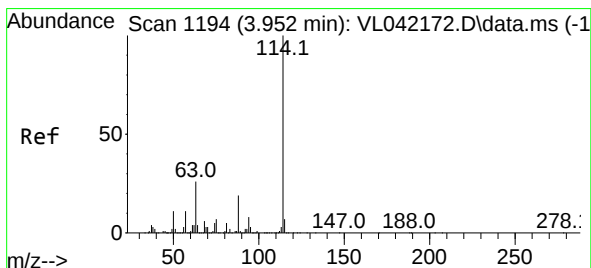
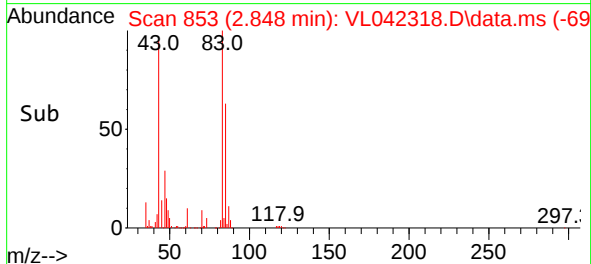
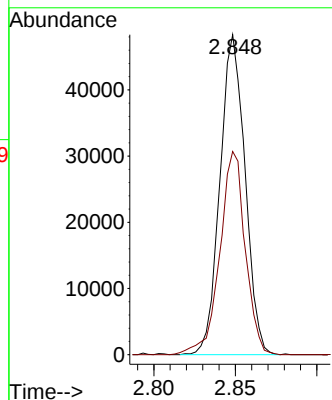
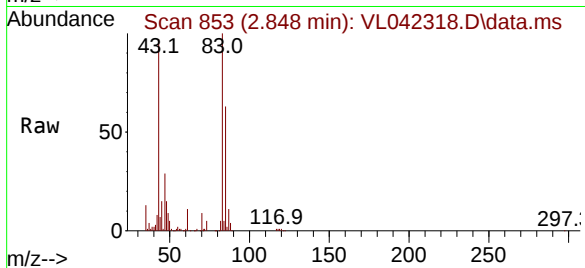
85 63.5 51.4 77.2

Manual Integrations

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Supervised By :Mahesh Dadoda 04/17/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.958 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042318.D

Acq: 11 Apr 2025 13:52

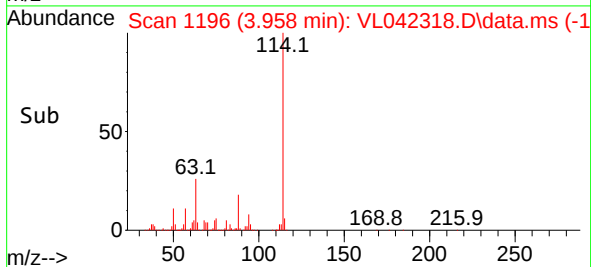
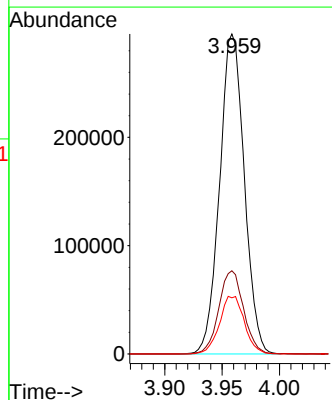
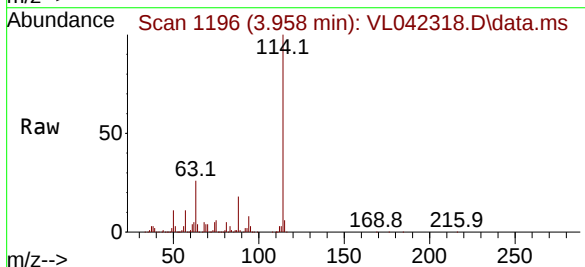
Tgt Ion:114 Resp: 442590

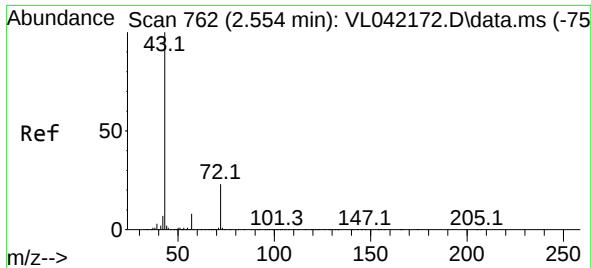
Ion Ratio Lower Upper

114 100

63 26.1 20.7 31.1

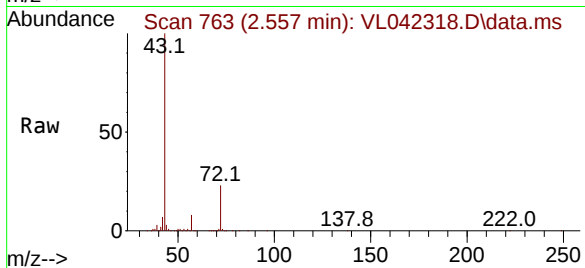
88 18.2 15.0 22.4





#34
2-Butanone
Concen: 26.579 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.003 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

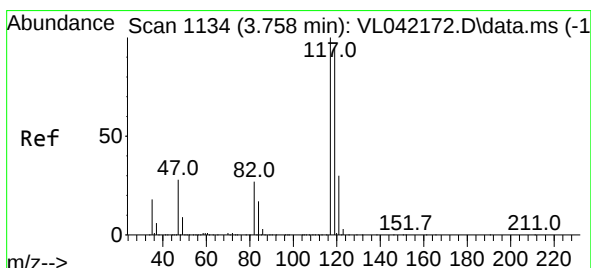
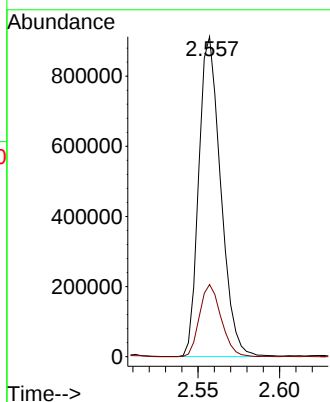
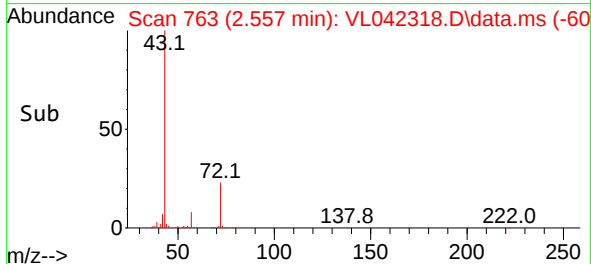
Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DUP



Tgt Ion: 43 Resp: 85300
Ion Ratio Lower Upper
43 100
72 22.3 18.2 27.2

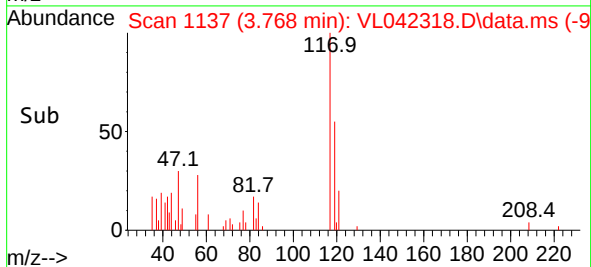
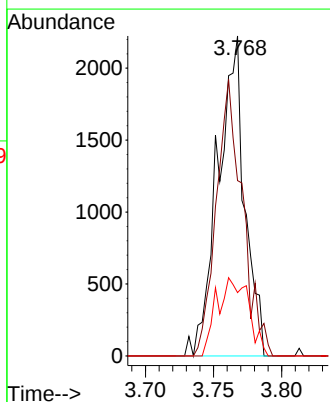
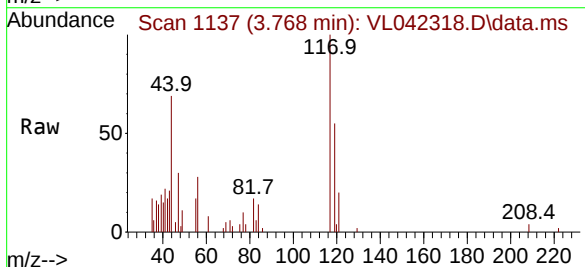
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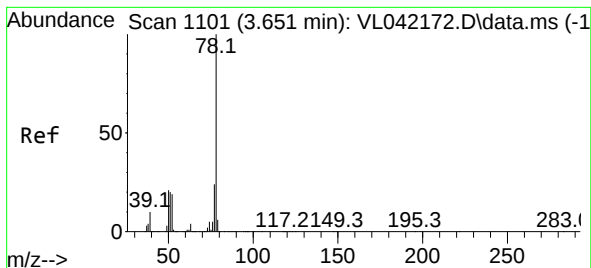
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#35
Carbon Tetrachloride
Concen: 0.088 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.009 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:117 Resp: 3050
Ion Ratio Lower Upper
117 100
119 54.8 76.2 114.2#
121 19.8 24.2 36.4#





#36

Benzene

Concen: 0.601 ppbv

RT: 3.654 min Scan# 1101

Delta R.T. 0.003 min

Lab File: VL042318.D

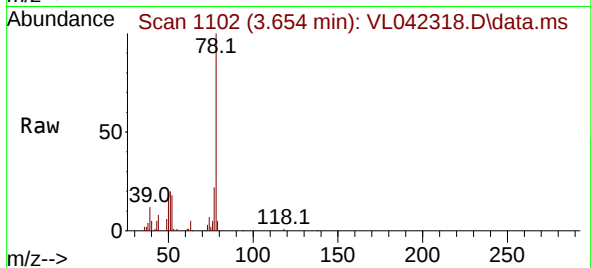
Acq: 11 Apr 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

IA-B10-2-3242025DUP

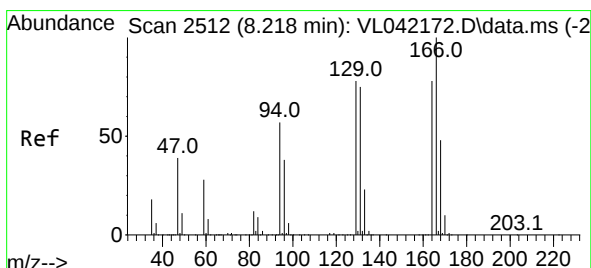
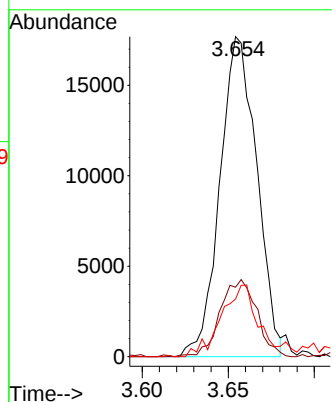
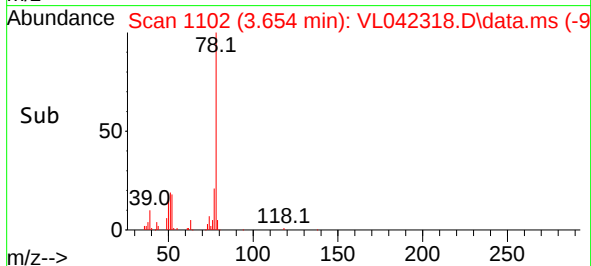


Tgt Ion:	78	Resp:	26349
Ion Ratio	100	Lower	Upper
78	100		
77	21.2	19.1	28.7
50	18.0	16.6	24.8

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Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#52

Tetrachloroethene

Concen: 0.036 ppbv m

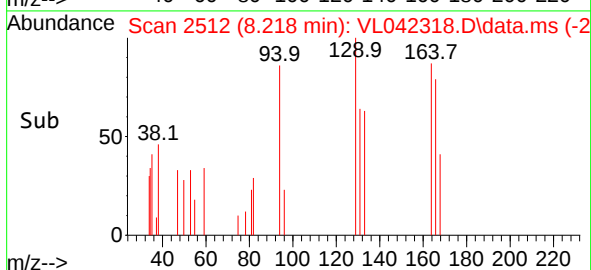
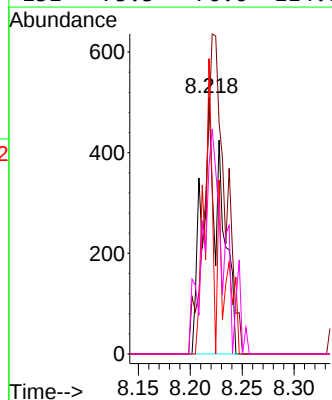
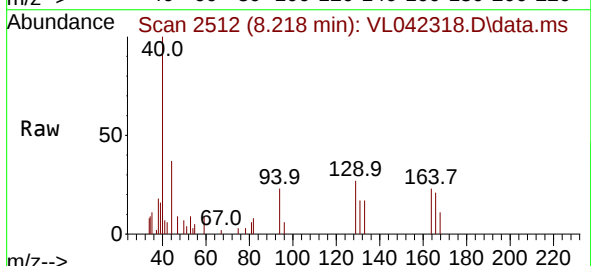
RT: 8.218 min Scan# 2512

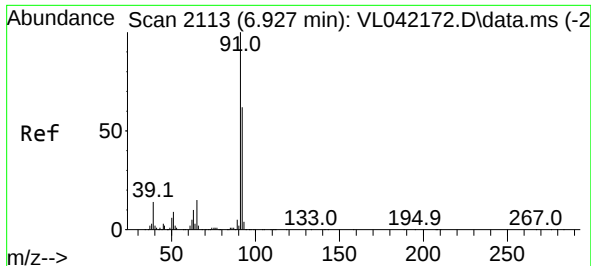
Delta R.T. -0.000 min

Lab File: VL042318.D

Acq: 11 Apr 2025 13:52

Tgt Ion:	164	Resp:	626
Ion Ratio	100	Lower	Upper
164	100		
166	90.8	102.5	153.7#
129	115.1	79.8	119.8
131	73.3	76.6	114.8#





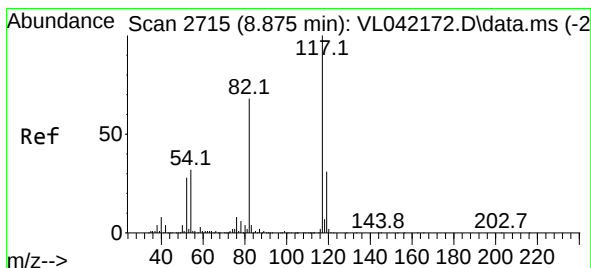
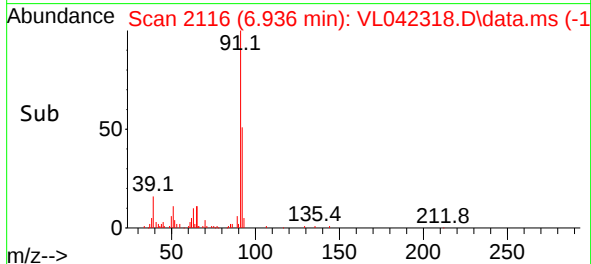
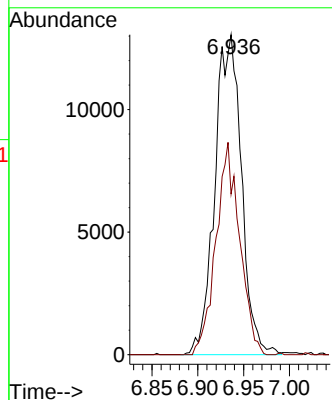
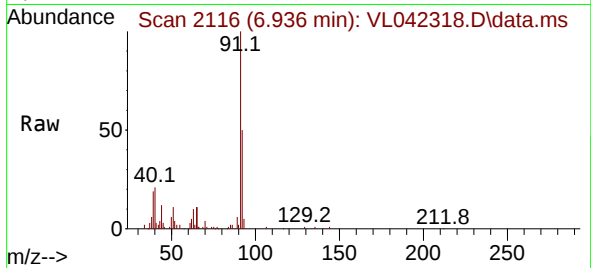
#53
Toluene
Concen: 0.507 ppbv m
RT: 6.936 min Scan# 2113
Delta R.T. 0.009 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B10-2-3242025DUP

Tgt Ion: 91 Resp: 2634
Ion Ratio Lower Upper
91 100
92 59.0 48.4 72.6

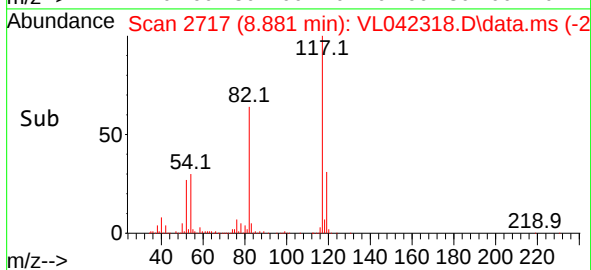
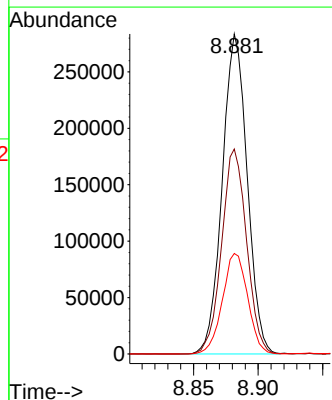
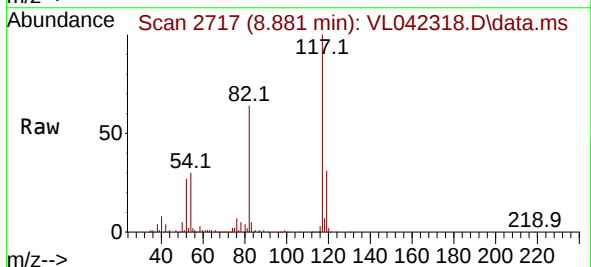
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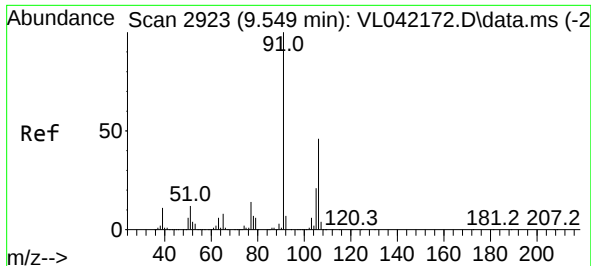
Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. 0.006 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:117 Resp: 380933
Ion Ratio Lower Upper
117 100
82 64.2 55.8 83.6
119 31.9 25.5 38.3





#59

m/p-Xylene

Concen: 0.202 ppbv m

RT: 9.529 min Scan# 2917

Delta R.T. -0.020 min

Lab File: VL042318.D

Acq: 11 Apr 2025 13:52

Instrument :

MSVOA_L

ClientSampleId :

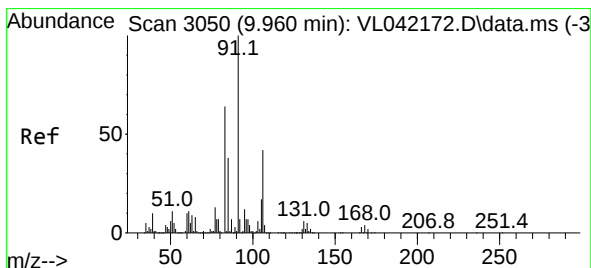
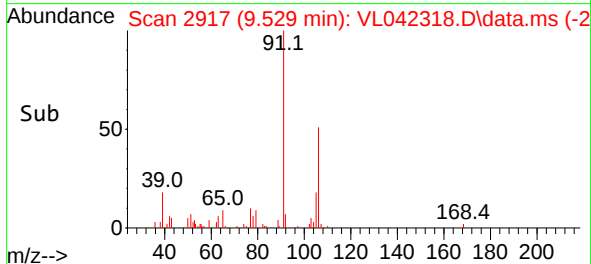
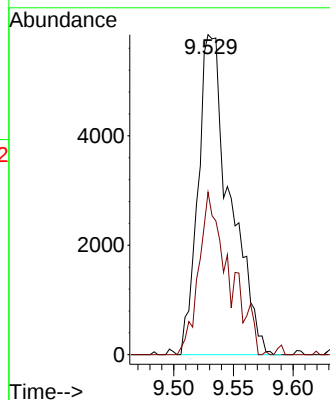
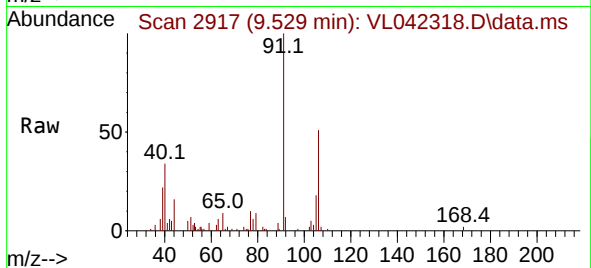
IA-B10-2-3242025DUP

Tgt Ion: 91 Resp: 10928
 Ion Ratio Lower Upper
 91 100
 106 0.0 36.4 54.6

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Reviewed By :Semsettin Yesilyurt 04/16/2025
 Supervised By :Mahesh Dadoda 04/17/2025



#60

o-Xylene

Concen: 0.117 ppbv m

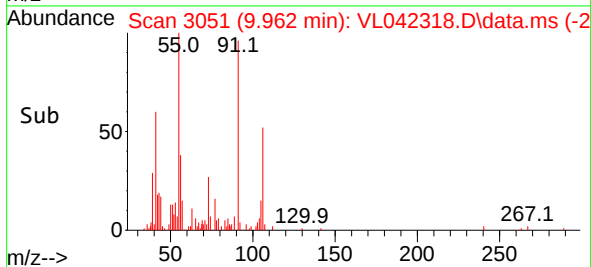
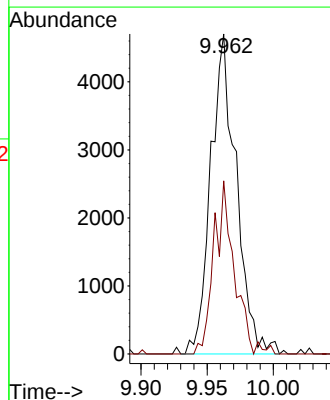
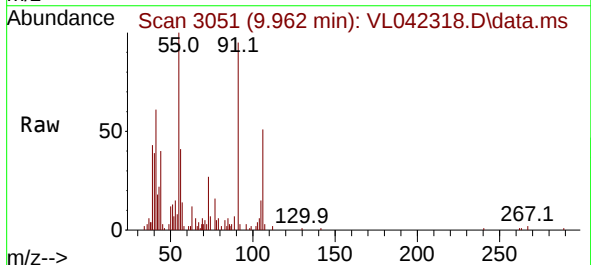
RT: 9.962 min Scan# 3051

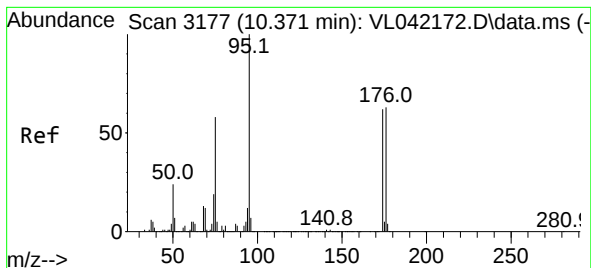
Delta R.T. 0.003 min

Lab File: VL042318.D

Acq: 11 Apr 2025 13:52

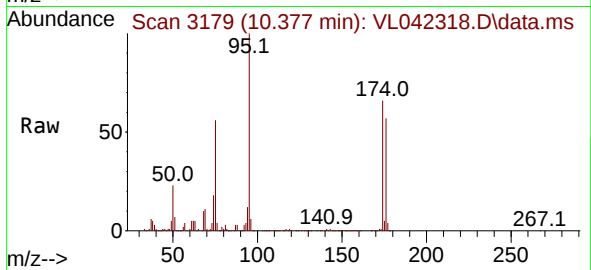
Tgt Ion: 91 Resp: 6311
 Ion Ratio Lower Upper
 91 100
 106 43.6 20.8 62.5





#68
1-Bromo-4-Fluorobenzene
Concen: 9.741 ppbv
RT: 10.377 min Scan# 3177
Delta R.T. 0.006 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

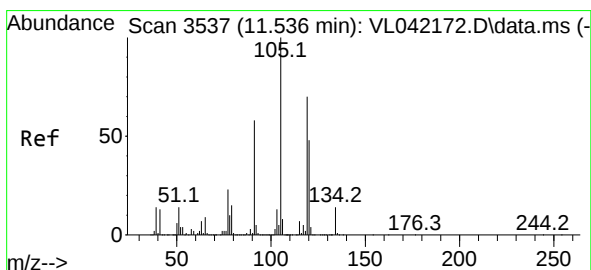
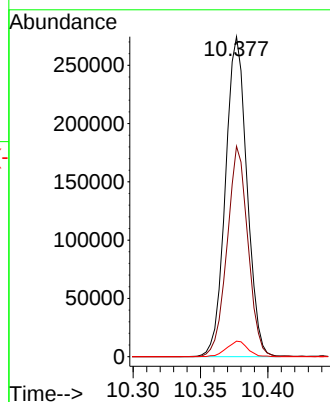
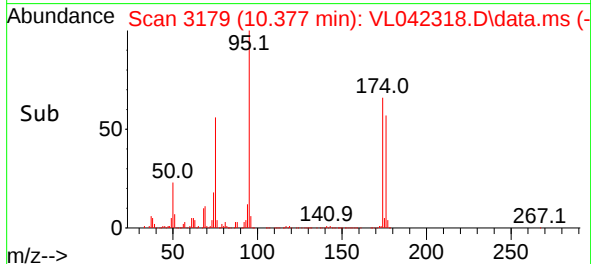
Instrument : MSVOA_L
ClientSampleId : VL042318.D
IA-B10-2-3242025DUP



Tgt Ion: 95 Resp: 30473
Ion Ratio Lower Upper
95 100
174 63.9 50.6 76.0
175 4.8 3.8 5.6

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/16/2025
Supervised By :Mahesh Dadoda 04/17/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.132 ppbv
RT: 11.535 min Scan# 3537
Delta R.T. -0.000 min
Lab File: VL042318.D
Acq: 11 Apr 2025 13:52

Tgt Ion:105 Resp: 8971
Ion Ratio Lower Upper
105 100
120 43.4 38.6 58.0
91 21.9 46.2 69.2#
77 25.2 18.6 27.8

