

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041990.D
 Acq On : 10 Feb 2025 16:17
 Operator : SY/MD
 Sample : Q1303-03DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:25:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	140524	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.956	114	401797	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.876	117	348109	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	254755	9.291	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	8134	0.425	ppbv	98
4) Chloromethane	1.532	50	4532	0.630	ppbv	97
9) Propene	1.486	41	20213m	2.447	ppbv	
11) Trichlorofluoromethane	1.875	101	4651m	0.234	ppbv	
13) Ethanol	1.719	45	671196	1109.332	ppbv	88
15) Acetone	1.833	43	2302565	136.424	ppbv #	58
17) tert-Butyl alcohol	2.043	59	3265m	0.157	ppbv	
19) Isopropyl Alcohol	1.884	45	1251226	125.031	ppbv #	27
20) Methylene Chloride	2.059	84	10919	1.637	ppbv	91
25) Ethyl Acetate	2.833	43	545754	11.991	ppbv #	92
34) 2-Butanone	2.558	43	13370	0.523	ppbv	96
35) Carbon Tetrachloride	3.758	117	1873	0.074	ppbv #	79
36) Benzene	3.652	78	14946	0.406	ppbv	96
38) Trichloroethene	4.545	130	536m	0.037	ppbv	
52) Tetrachloroethene	8.222	164	19933	1.560	ppbv	94
53) Toluene	6.930	91	45259	1.127	ppbv	96
58) Ethyl Benzene	9.358	91	5362m	0.099	ppbv	
59) m/p-Xylene	9.529	91	12481m	0.286	ppbv	
60) o-Xylene	9.960	91	5619	0.130	ppbv	100

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

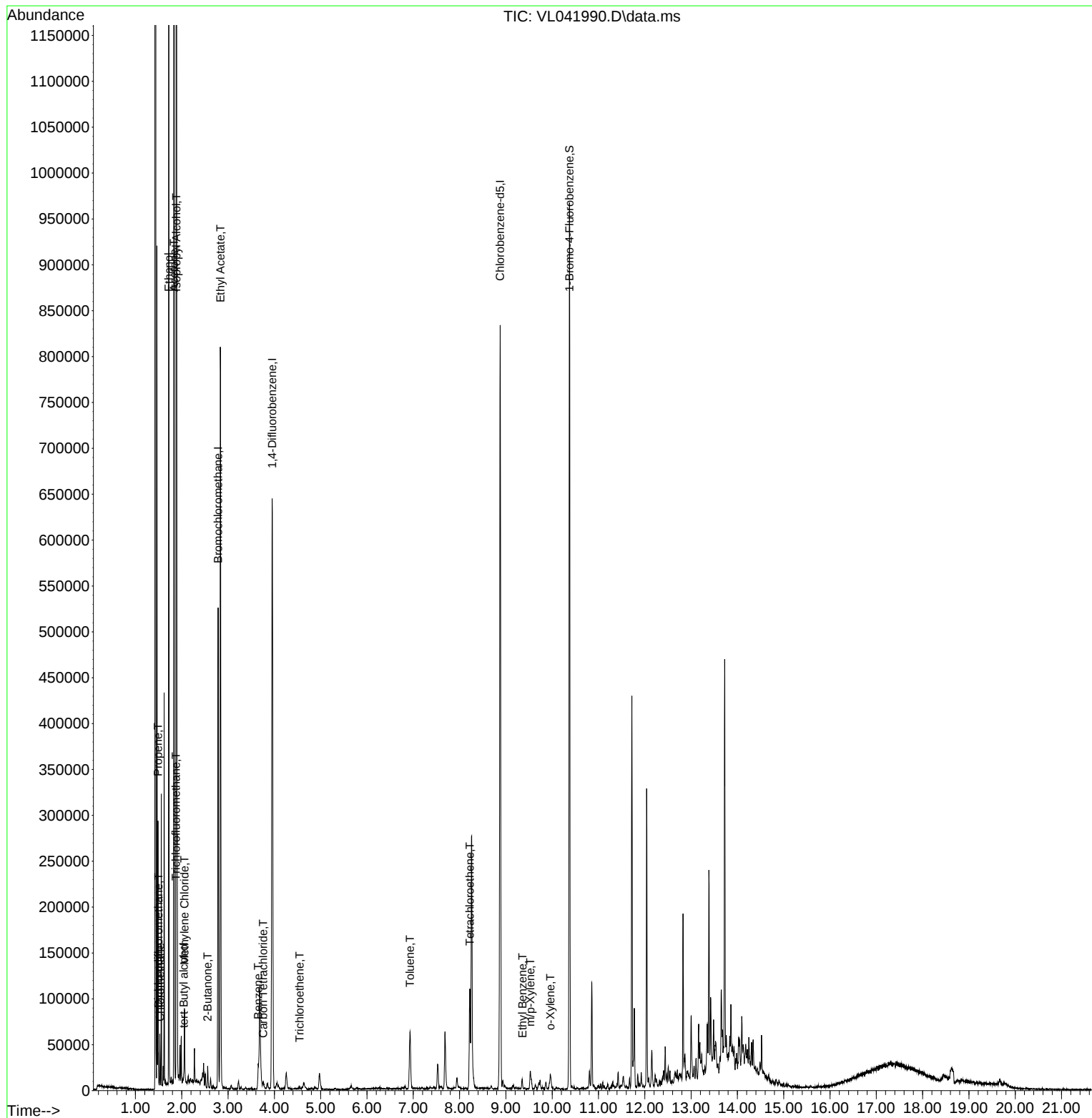
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
Data File : VL041990.D
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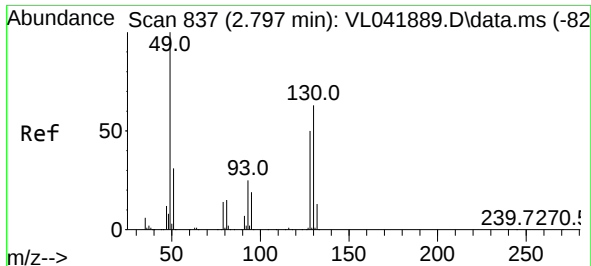
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Quant Time: Feb 11 01:25:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

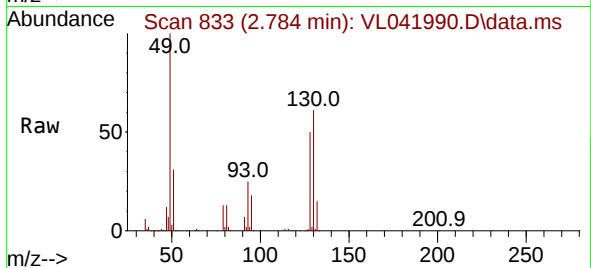
Reviewed By : Semsettin Yesilyurt 02/11/2025
Supervised By : Mahesh Dadoda 02/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

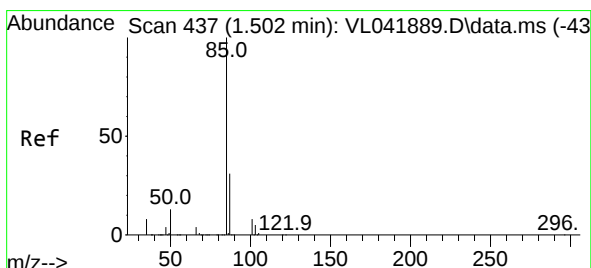
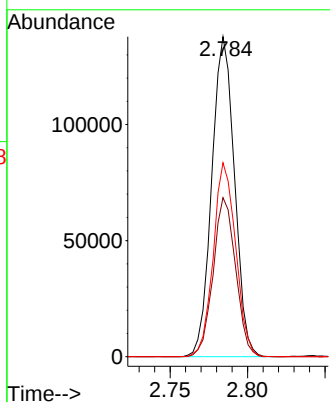
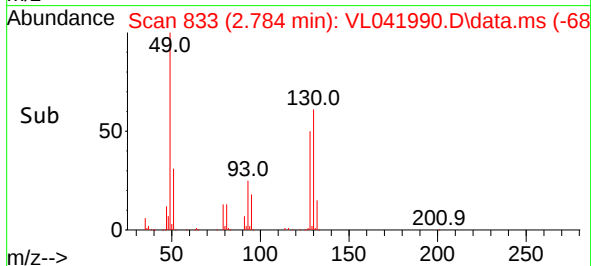
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 49 Resp: 140524
Ion Ratio Lower Upper
49 100
128 49.0 24.3 73.0
130 59.8 31.1 93.2

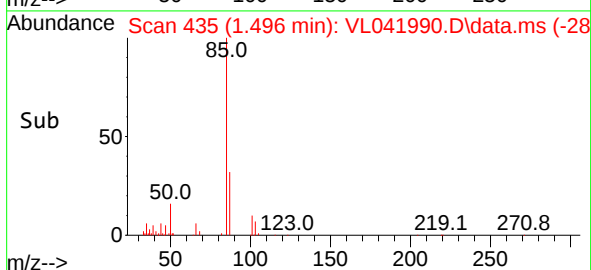
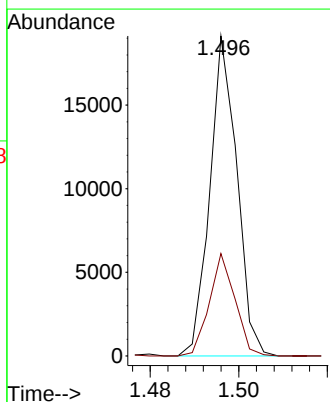
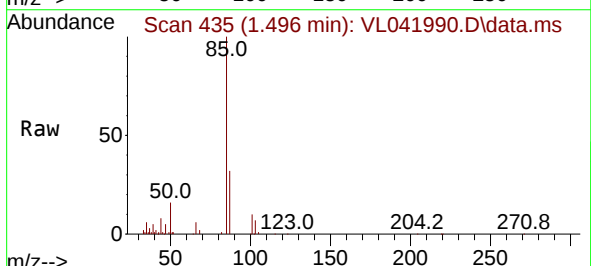
Manual Integrations
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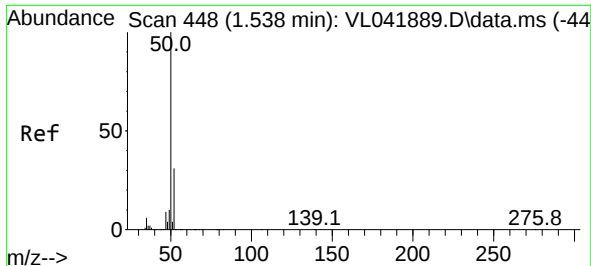
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 0.425 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

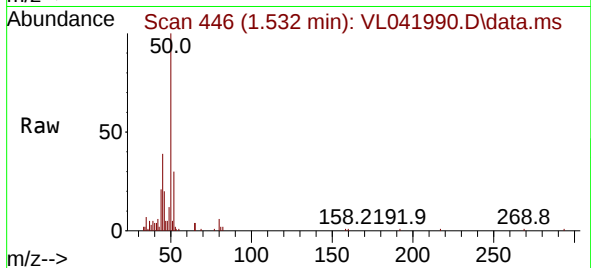
Tgt Ion: 85 Resp: 8134
Ion Ratio Lower Upper
85 100
87 32.0 24.9 37.3





#4
Chloromethane
Concen: 0.630 ppbv
RT: 1.532 min Scan# 448
Delta R.T. -0.006 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

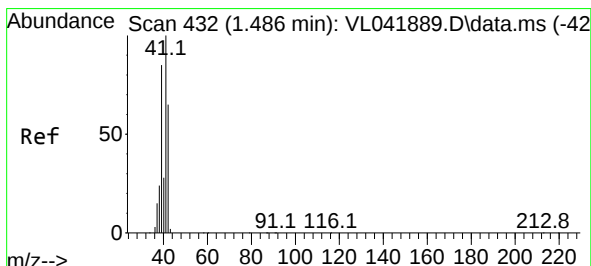
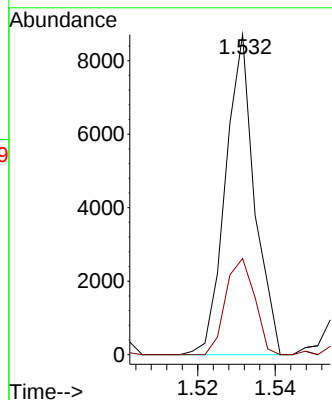
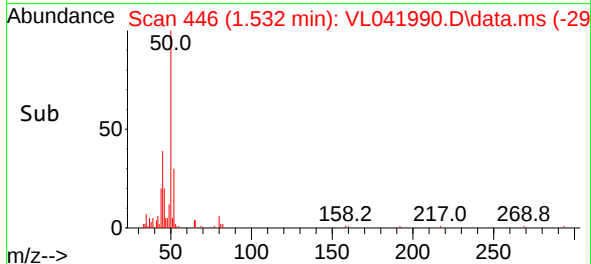
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 50 Resp: 4532
Ion Ratio Lower Upper
50 100
52 32.3 24.6 36.8

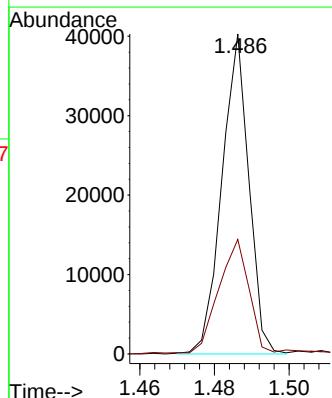
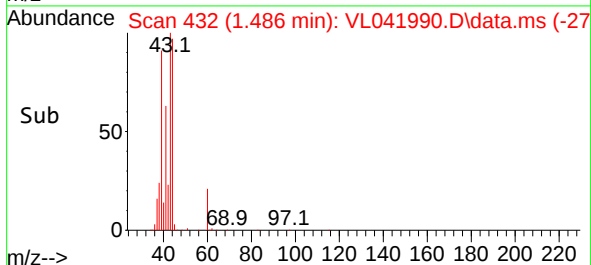
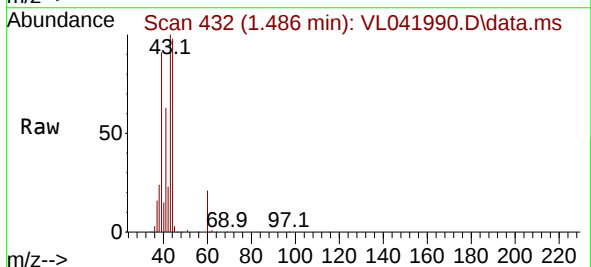
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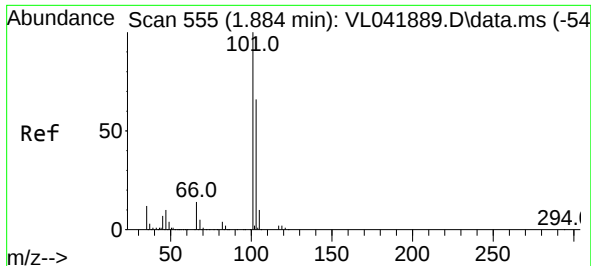
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#9
Propene
Concen: 2.447 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.000 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

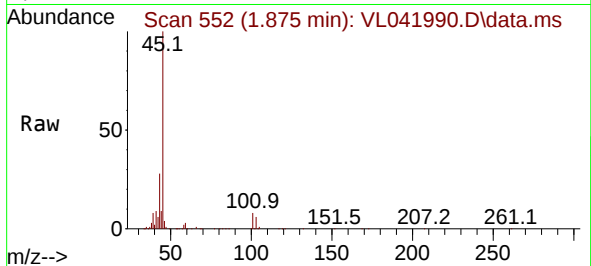
Tgt Ion: 41 Resp: 20213
Ion Ratio Lower Upper
41 100
42 107.0 52.0 78.0#





#11
Trichlorofluoromethane
Concen: 0.234 ppbv m
RT: 1.875 min Scan# 504
Delta R.T. -0.009 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

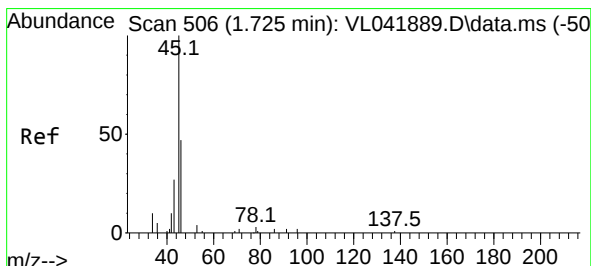
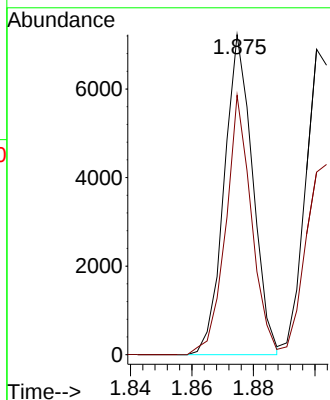
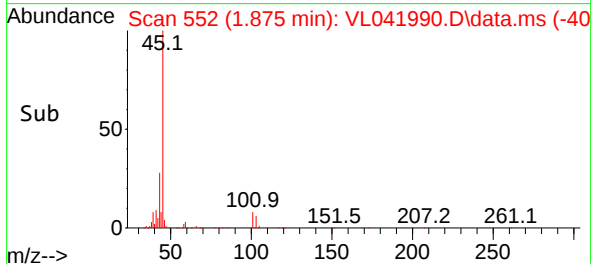
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:101 Resp: 465
Ion Ratio Lower Upper
101 100
103 81.1 53.1 79.7

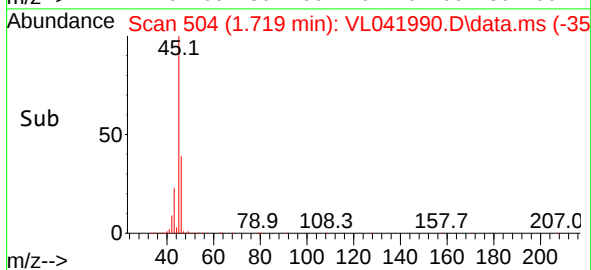
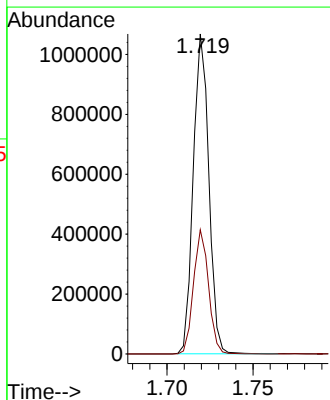
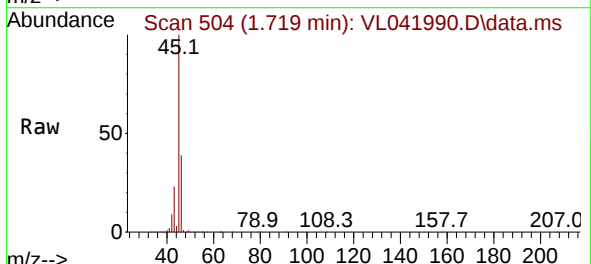
Manual Integrations
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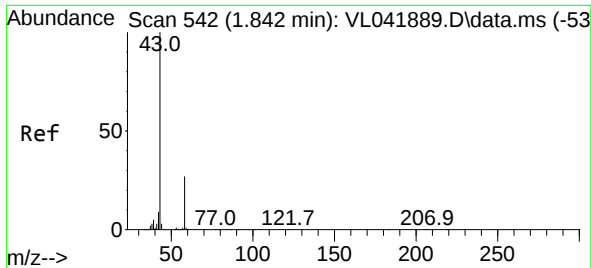
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#13
Ethanol
Concen: 1109.332 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.006 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

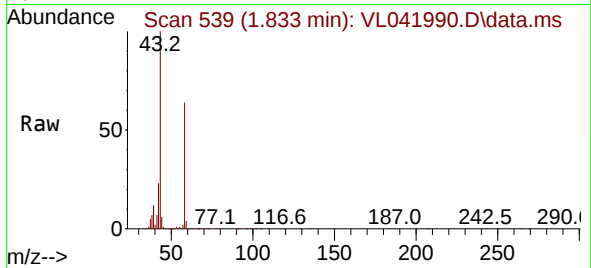
Tgt Ion: 45 Resp: 671196
Ion Ratio Lower Upper
45 100
46 37.8 18.1 72.5





#15
Acetone
Concen: 136.424 ppbv
RT: 1.833 min Scan# 51
Delta R.T. -0.009 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

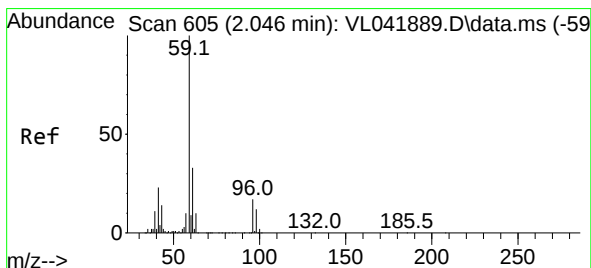
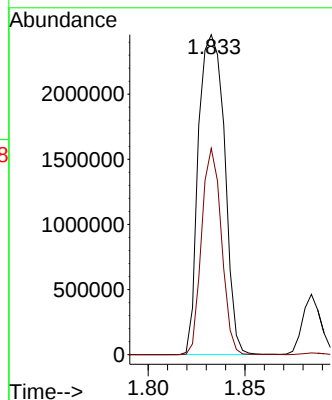
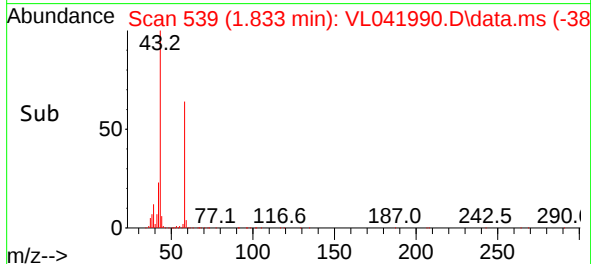
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 230256
Ion Ratio Lower Upper
43 100
58 49.2 21.9 32.9

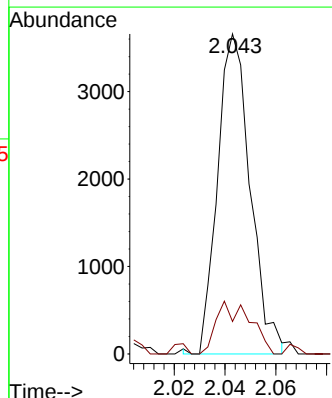
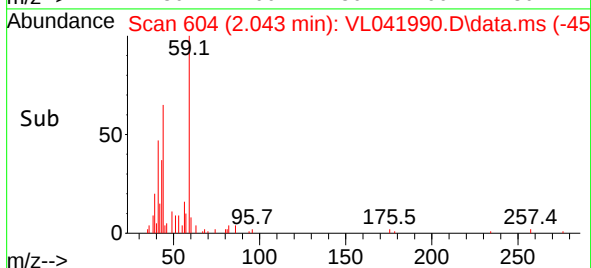
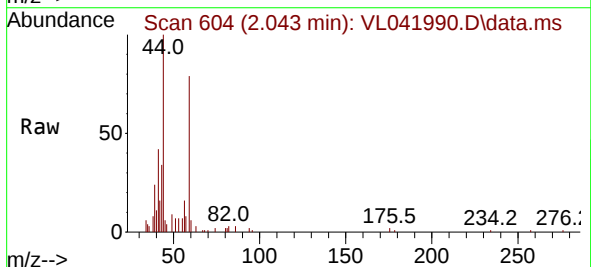
Manual Integrations
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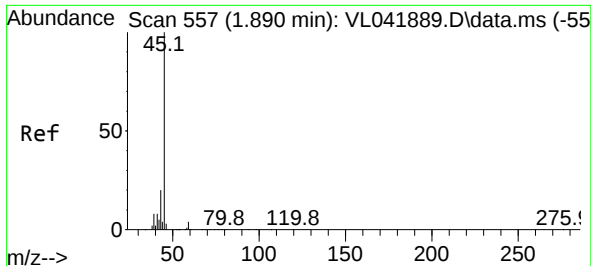
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#17
tert-Butyl alcohol
Concen: 0.157 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. -0.003 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

Tgt Ion: 59 Resp: 3265
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8





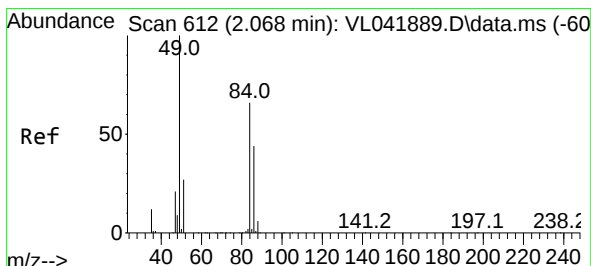
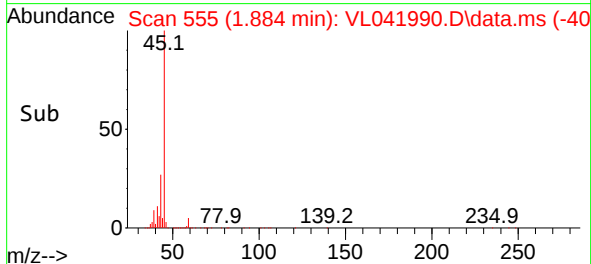
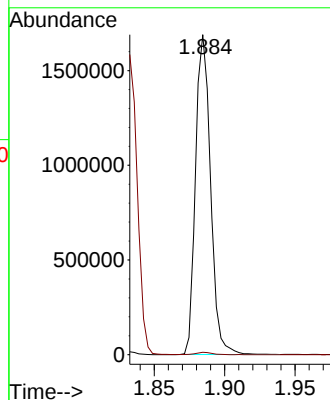
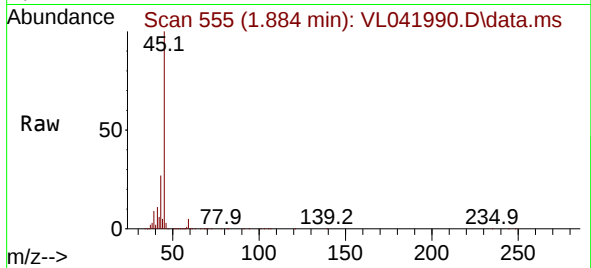
#19
Isopropyl Alcohol
Concen: 125.031 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.006 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 45 Resp: 1251220
Ion Ratio Lower Upper
45 100
58 90.6 35.0 52.6

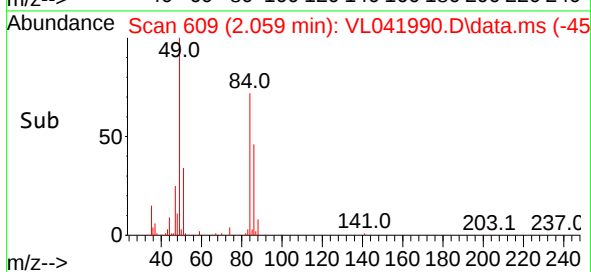
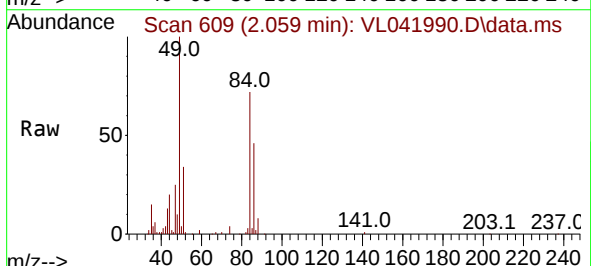
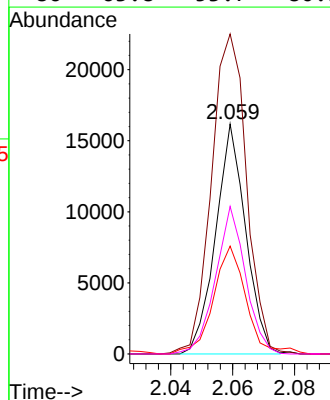
Manual Integrations
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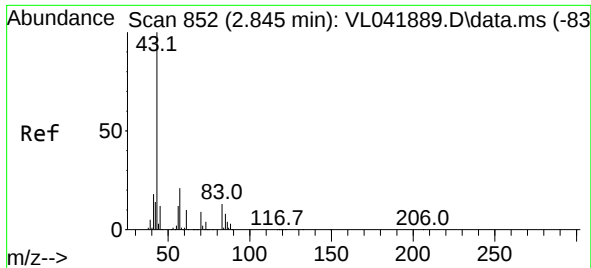
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#20
Methylene Chloride
Concen: 1.637 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.009 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

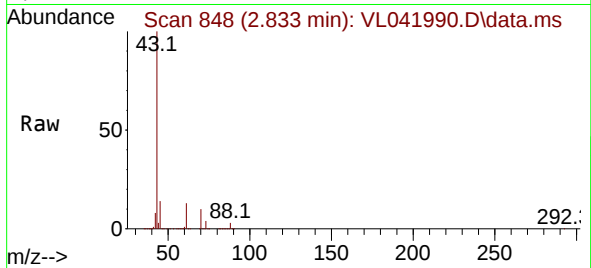
Tgt Ion: 84 Resp: 10919
Ion Ratio Lower Upper
84 100
49 137.2 123.1 184.7
51 44.9 35.8 53.8
86 63.8 53.7 80.5





#25
Ethyl Acetate
Concen: 11.991 ppbv
RT: 2.833 min Scan# 84
Delta R.T. -0.013 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

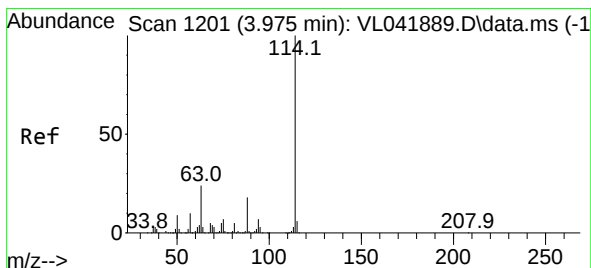
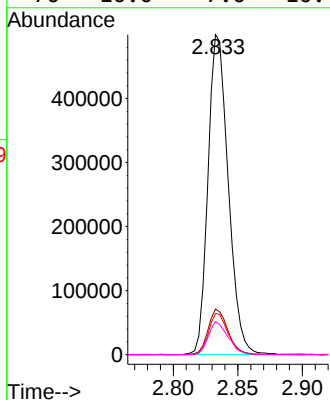
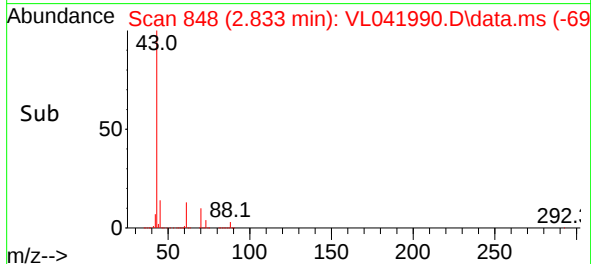
Instrument :
MSVOA_L
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IA1DUP



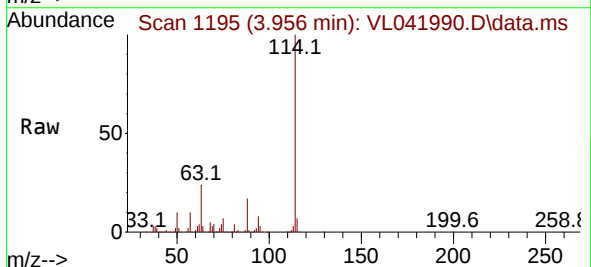
Tgt Ion: 43 Resp: 545754
Ion Ratio Lower Upper
43 100
45 14.1 8.2 12.2
61 12.5 7.4 11.0
70 10.0 7.0 10.4

Manual Integrations
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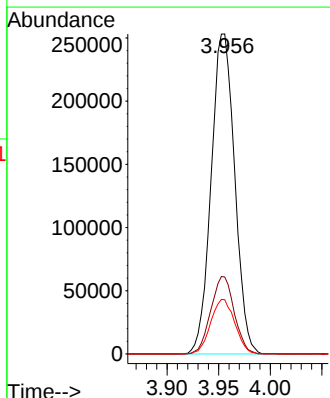
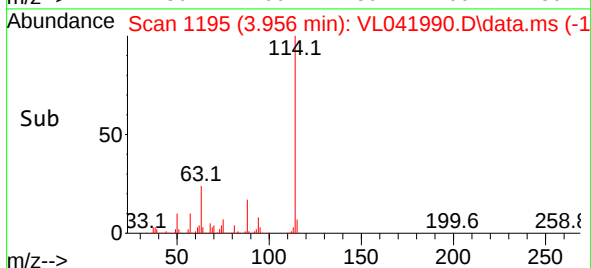
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

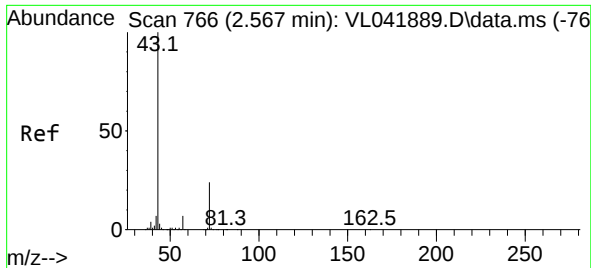


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.019 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17



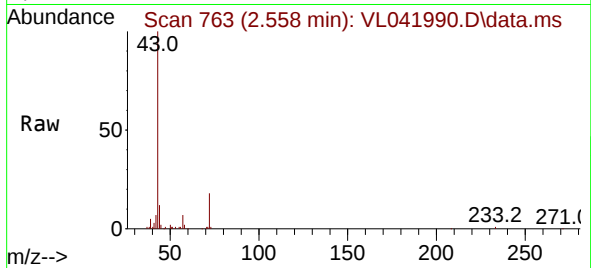
Tgt Ion:114 Resp: 401797
Ion Ratio Lower Upper
114 100
63 24.1 19.8 29.6
88 17.4 14.4 21.6





#34
2-Butanone
Concen: 0.523 ppbv
RT: 2.558 min Scan# 763
Delta R.T. -0.009 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

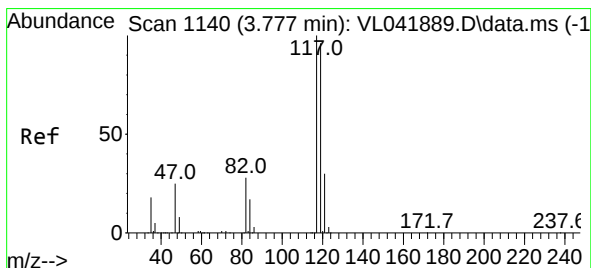
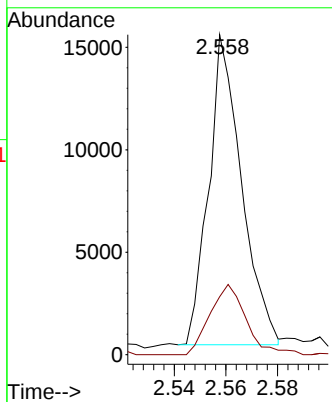
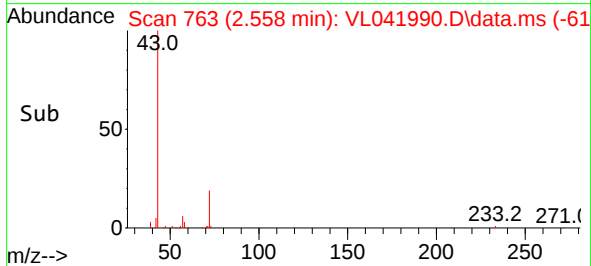
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 13370
Ion Ratio Lower Upper
43 100
72 25.3 18.6 28.0

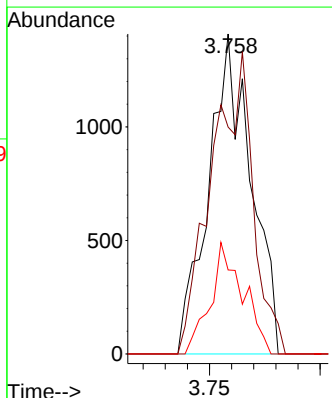
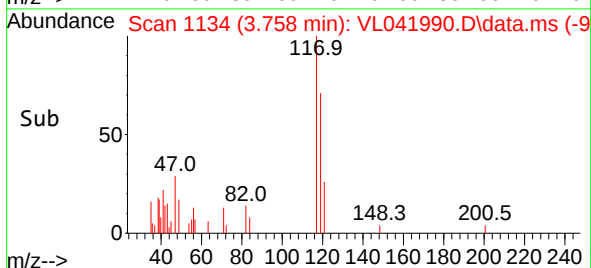
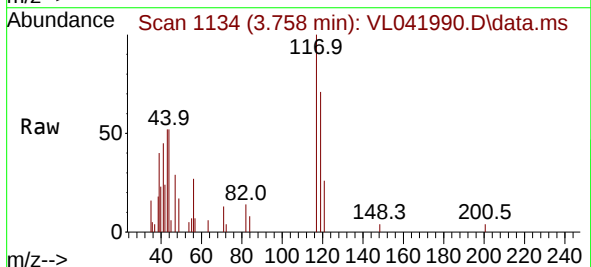
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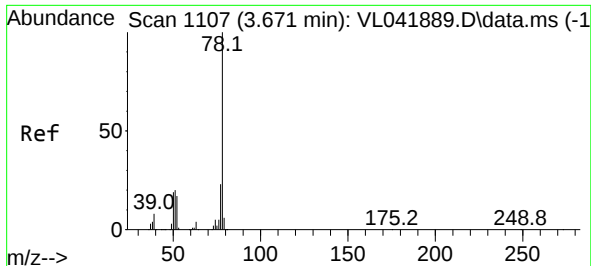
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#35
Carbon Tetrachloride
Concen: 0.074 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.019 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

Tgt Ion:117 Resp: 1873
Ion Ratio Lower Upper
117 100
119 70.9 76.9 115.3#
121 26.3 23.8 35.6





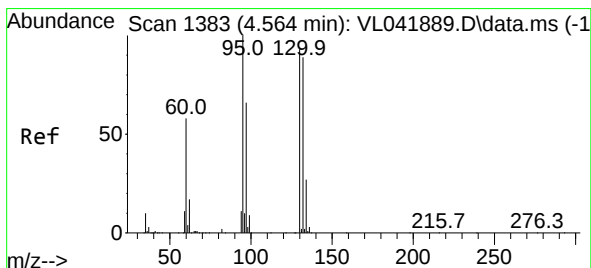
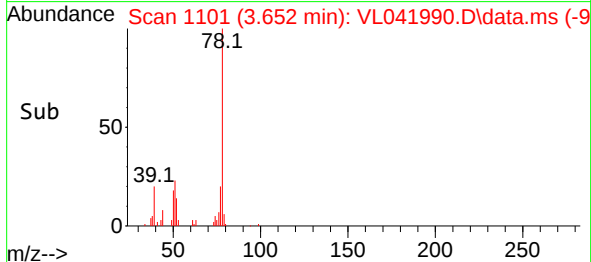
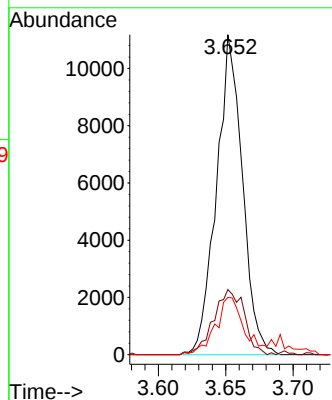
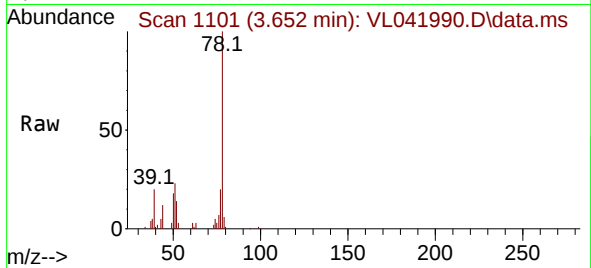
#36
Benzene
Concen: 0.406 ppbv
RT: 3.652 min Scan# 1101
Delta R.T. -0.019 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 78 Resp: 14940
Ion Ratio Lower Upper
78 100
77 20.3 18.1 27.1
50 17.9 15.2 22.8

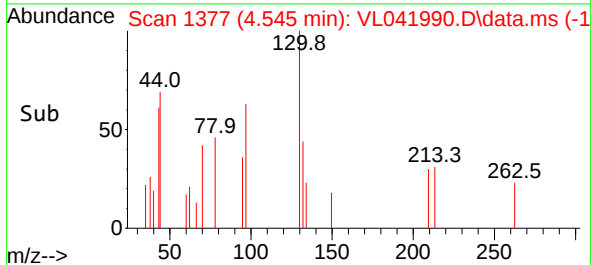
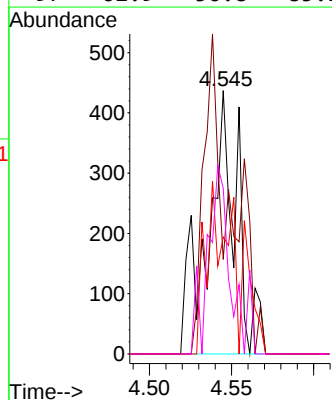
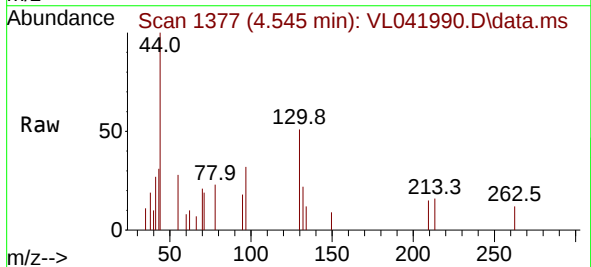
Manual Integrations
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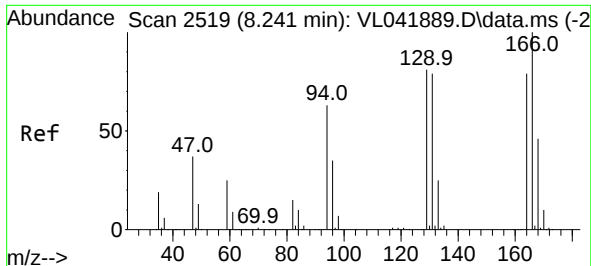
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#38
Trichloroethene
Concen: 0.037 ppbv m
RT: 4.545 min Scan# 1377
Delta R.T. -0.019 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

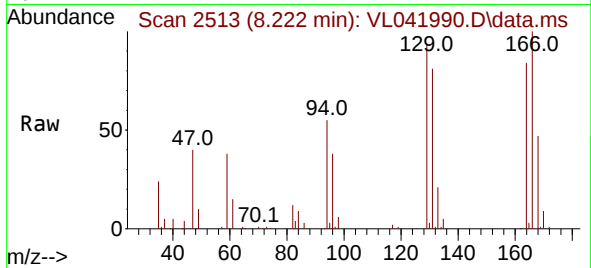
Tgt Ion:130 Resp: 536
Ion Ratio Lower Upper
130 100
95 35.9 85.8 128.8#
132 44.4 76.5 114.7#
97 62.9 56.8 85.2





#52
Tetrachloroethene
Concen: 1.560 ppbv
RT: 8.222 min Scan# 2113
Delta R.T. -0.019 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

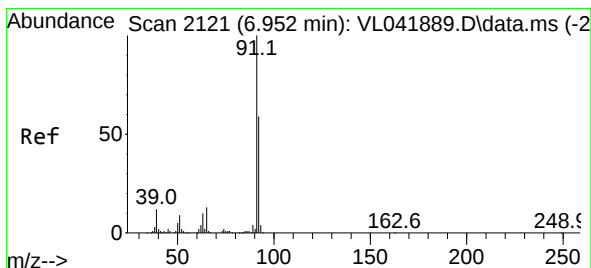
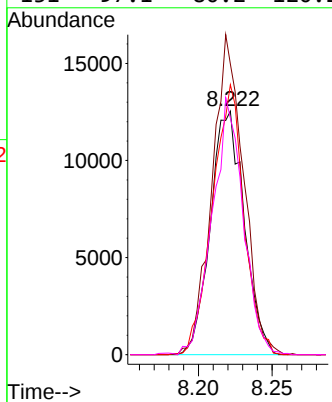
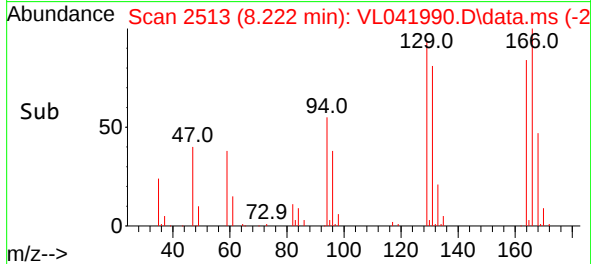
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion:164 Resp: 1993
Ion Ratio Lower Upper
164 100
166 118.9 100.8 151.2
129 110.4 82.0 123.0
131 97.1 80.2 120.2

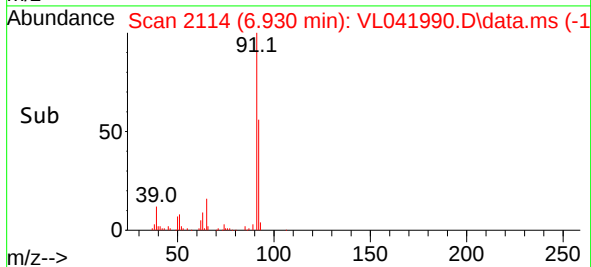
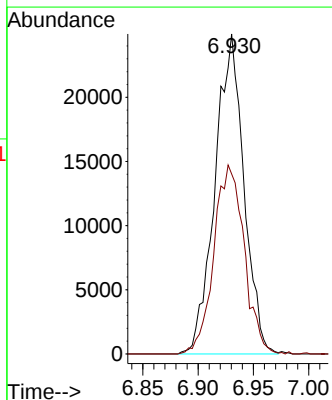
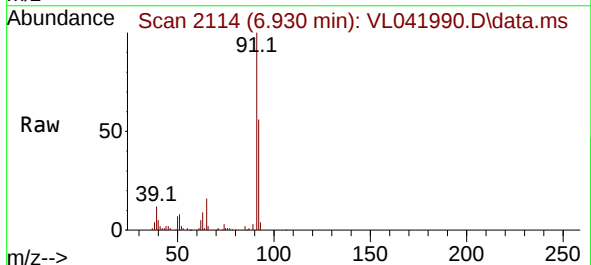
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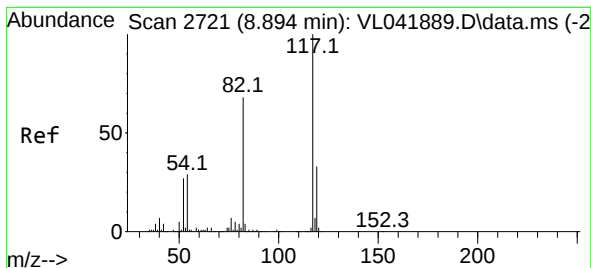
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#53
Toluene
Concen: 1.127 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.022 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

Tgt Ion: 91 Resp: 45259
Ion Ratio Lower Upper
91 100
92 62.1 47.4 71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.876 min Scan# 2715

Delta R.T. -0.019 min

Lab File: VL041990.D

Acq: 10 Feb 2025 16:17

Instrument :

MSVOA_L

ClientSampleId :

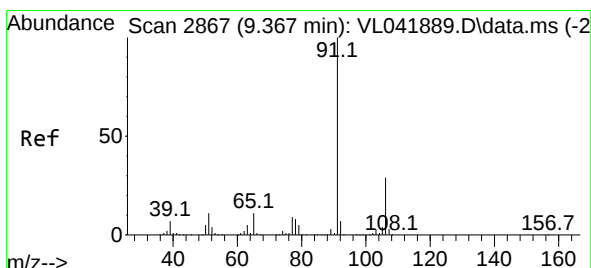
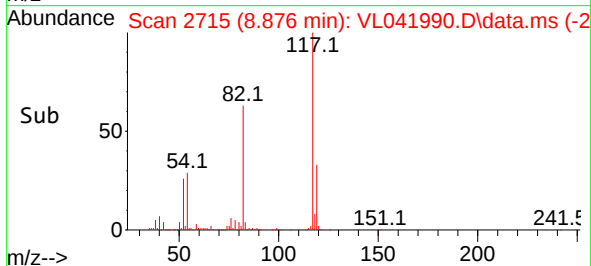
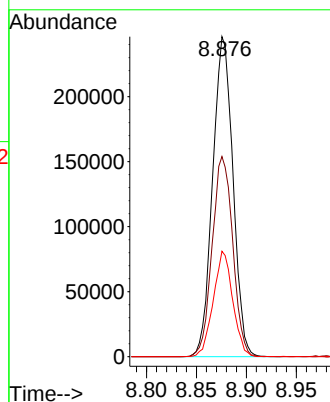
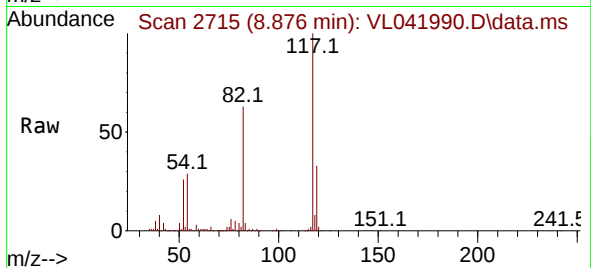
IA1DUP

Tgt Ion:	117	Resp:	348109
Ion	Ratio	Lower	Upper
117	100		
82	63.4	54.2	81.4
119	31.6	25.0	37.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#58

Ethyl Benzene

Concen: 0.099 ppbv m

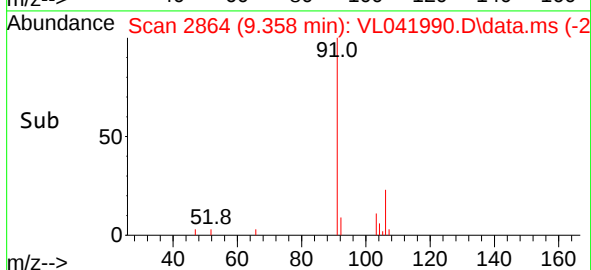
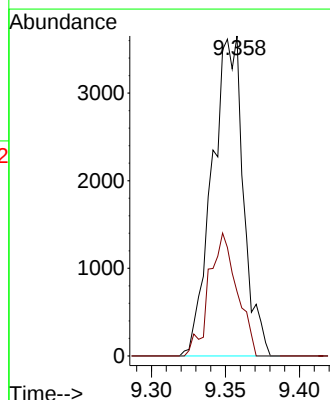
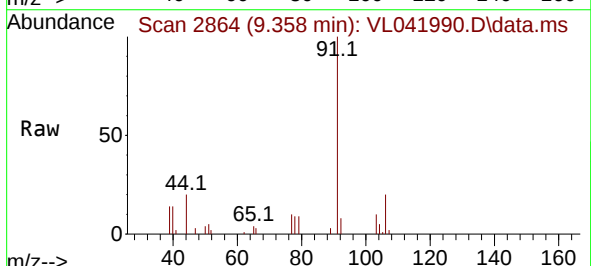
RT: 9.358 min Scan# 2864

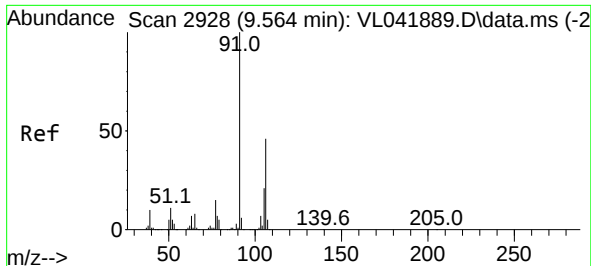
Delta R.T. -0.009 min

Lab File: VL041990.D

Acq: 10 Feb 2025 16:17

Tgt Ion:	91	Resp:	5362
Ion	Ratio	Lower	Upper
91	100		
106	20.1	23.1	34.7#





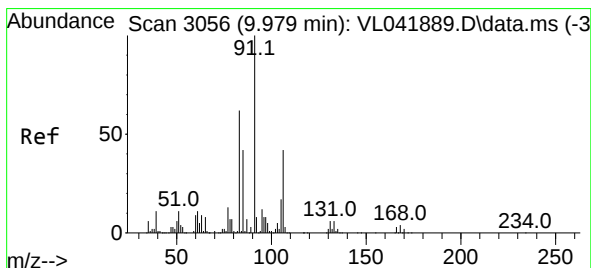
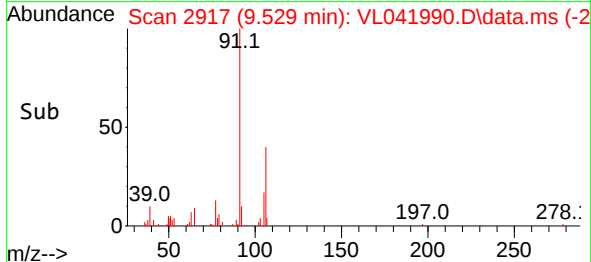
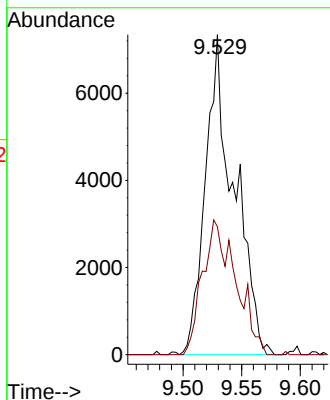
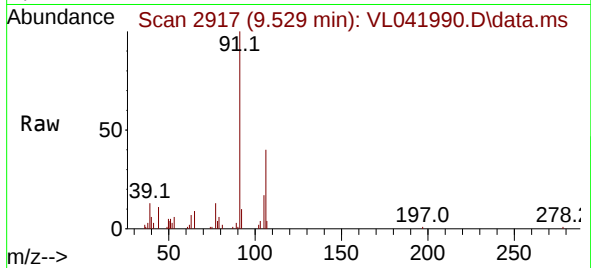
#59
m/p-Xylene
Concen: 0.286 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.035 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 1248
Ion Ratio Lower Upper
91 100
106 0.0 36.0 54.0

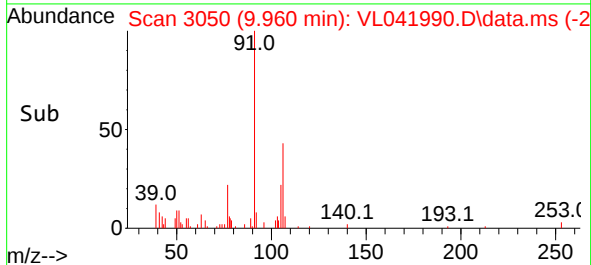
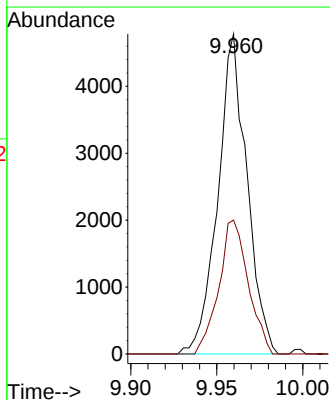
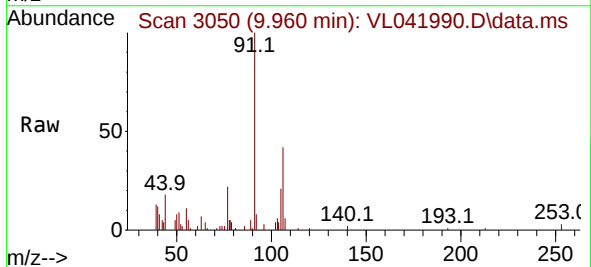
Manual Integrations
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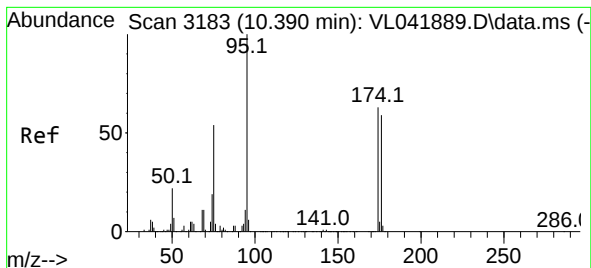
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#60
o-Xylene
Concen: 0.130 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. -0.019 min
Lab File: VL041990.D
Acq: 10 Feb 2025 16:17

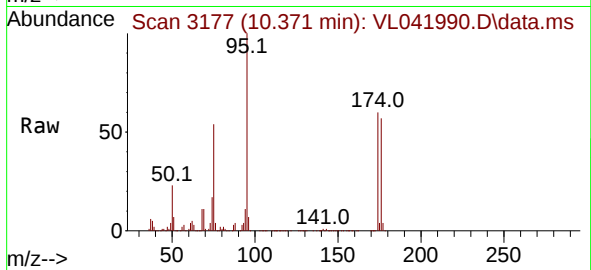
Tgt Ion: 91 Resp: 5619
Ion Ratio Lower Upper
91 100
106 42.3 21.3 63.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.291 ppbv
 RT: 10.371 min Scan# 3183
 Delta R.T. -0.019 min
 Lab File: VL041990.D
 Acq: 10 Feb 2025 16:17

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP



Tgt Ion: 95 Resp: 254758
 Ion Ratio Lower Upper
 95 100
 174 61.8 49.0 73.4
 175 4.5 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

