

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041989.D
 Acq On : 10 Feb 2025 15:43
 Operator : SY/MD
 Sample : Q1303-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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

Quant Time: Feb 11 01:25:01 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

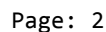
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

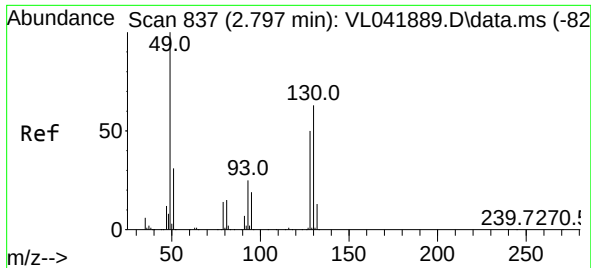
Internal Standards						
1) Bromochloromethane	2.784	49	143881	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.952	114	411385	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.875	117	350508	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	258442	9.361	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	8543	0.436	ppbv	98
4) Chloromethane	1.528	50	4082	0.554	ppbv	94
9) Propene	1.486	41	19213m	2.272	ppbv	
11) Trichlorofluoromethane	1.874	101	5294m	0.260	ppbv	
13) Ethanol	1.719	45	675322	1090.109	ppbv	88
15) Acetone	1.832	43	2310992	133.728	ppbv #	58
17) tert-Butyl alcohol	2.043	59	3605m	0.169	ppbv	
19) Isopropyl Alcohol	1.884	45	1259646	122.935	ppbv #	28
20) Methylene Chloride	2.059	84	10800	1.581	ppbv #	85
25) Ethyl Acetate	2.832	43	558771	11.991	ppbv #	92
34) 2-Butanone	2.561	43	14190	0.542	ppbv	100
35) Carbon Tetrachloride	3.761	117	1770m	0.068	ppbv	
36) Benzene	3.651	78	15471	0.410	ppbv	94
38) Trichloroethene	4.545	130	484m	0.032	ppbv	
52) Tetrachloroethene	8.221	164	20075	1.534	ppbv #	81
53) Toluene	6.927	91	48493	1.180	ppbv	99
58) Ethyl Benzene	9.348	91	5704	0.104	ppbv	97
59) m/p-Xylene	9.523	91	13469m	0.307	ppbv	
60) o-Xylene	9.956	91	6020	0.138	ppbv	83

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

Manual Integrations

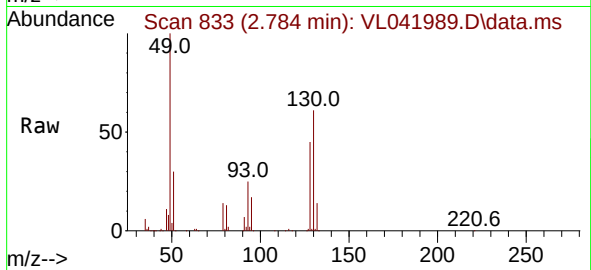
Quant Time: Feb 11 01:25:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

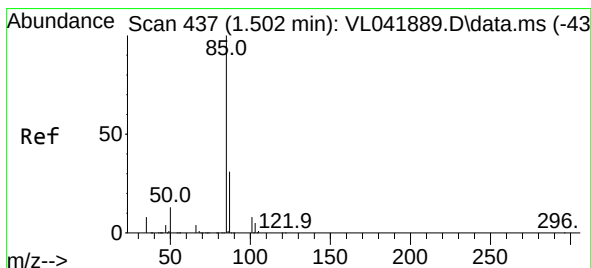
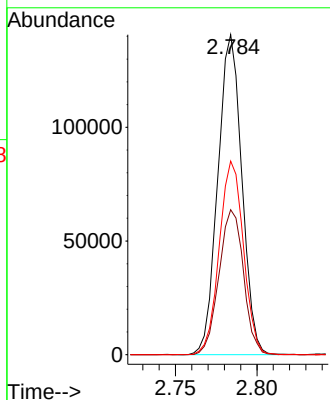
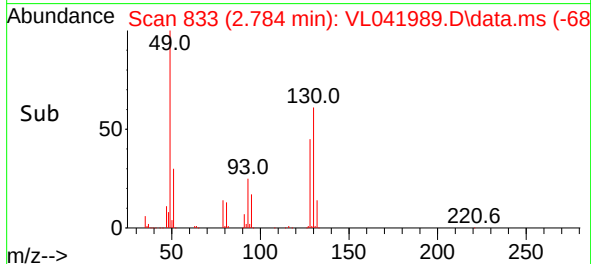
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 14388
Ion Ratio Lower Upper
49 100
128 46.3 24.3 73.0
130 61.0 31.1 93.2

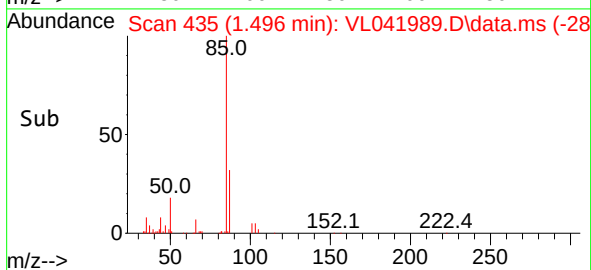
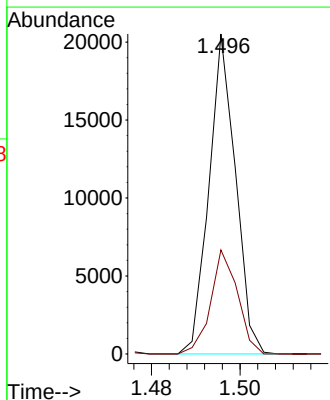
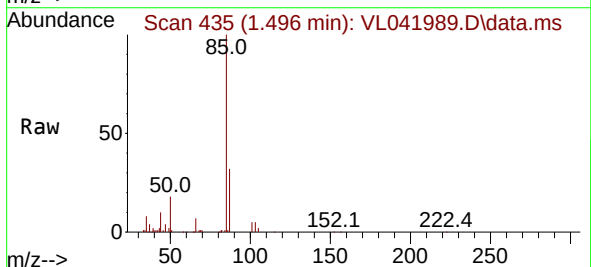
Manual Integrations
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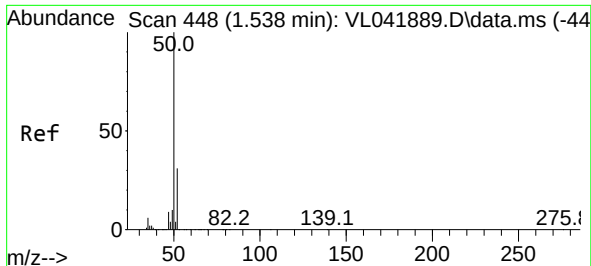
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 0.436 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

Tgt Ion: 85 Resp: 8543
Ion Ratio Lower Upper
85 100
87 32.5 24.9 37.3





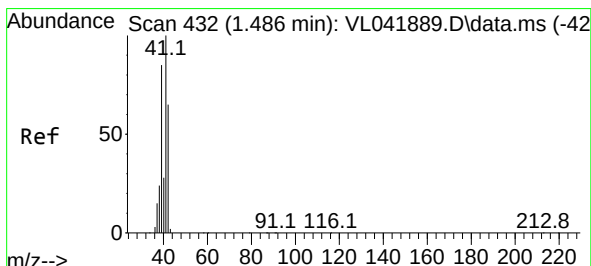
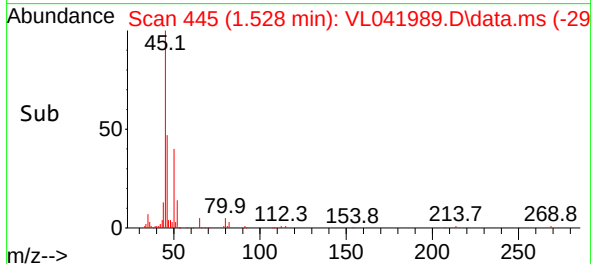
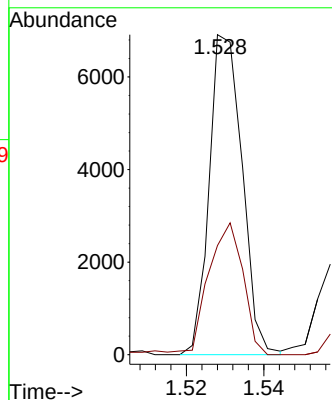
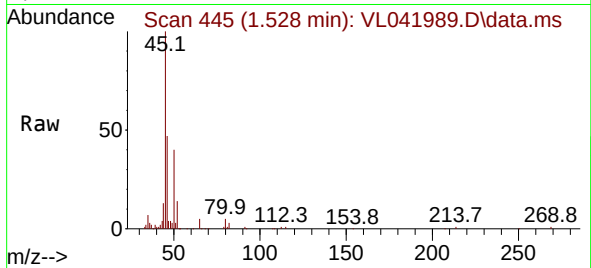
#4
Chloromethane
Concen: 0.554 ppbv
RT: 1.528 min Scan# 448
Delta R.T. -0.010 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 50 Resp: 4082
Ion Ratio Lower Upper
50 100
52 34.1 24.6 36.8

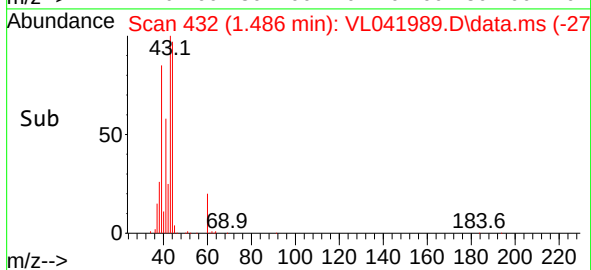
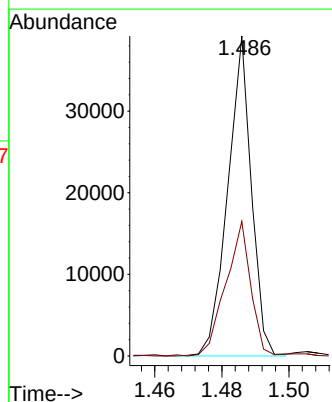
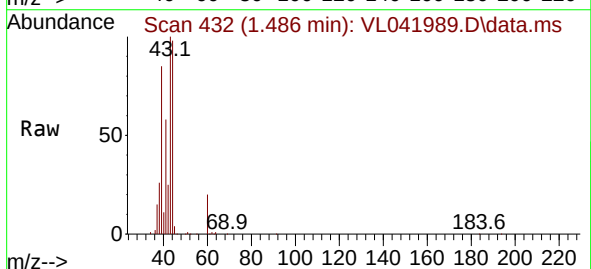
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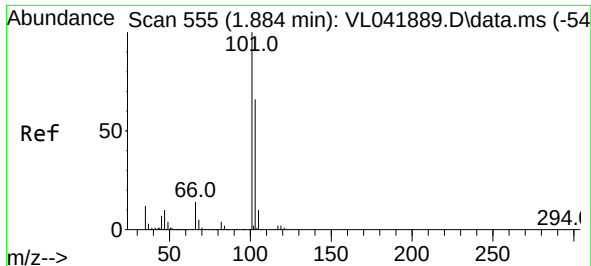
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#9
Propene
Concen: 2.272 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.000 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

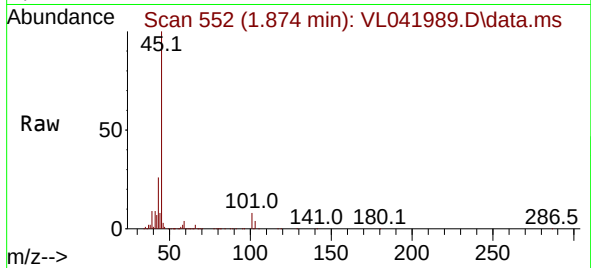
Tgt Ion: 41 Resp: 19213
Ion Ratio Lower Upper
41 100
42 111.8 52.0 78.0#





#11
Trichlorofluoromethane
Concen: 0.260 ppbv m
RT: 1.874 min Scan# 501
Delta R.T. -0.010 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

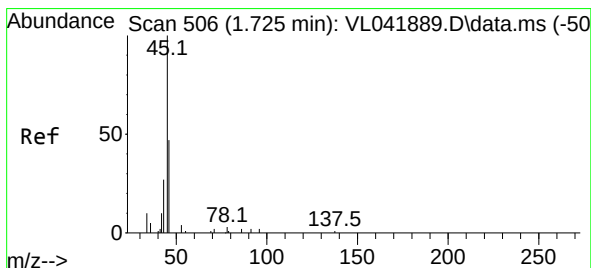
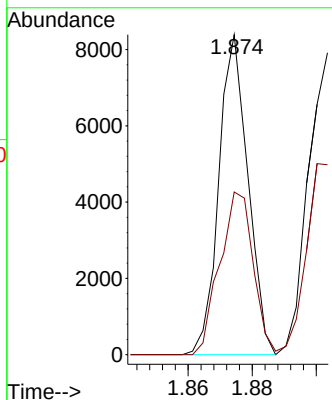
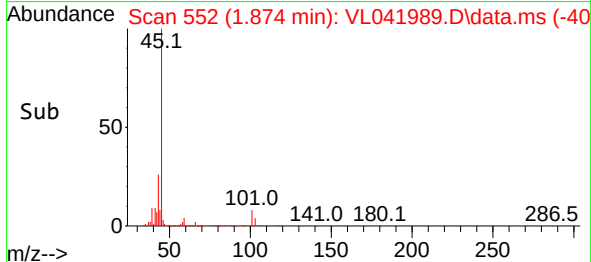
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:101 Resp: 5294
Ion Ratio Lower Upper
101 100
103 50.8 53.1 79.7

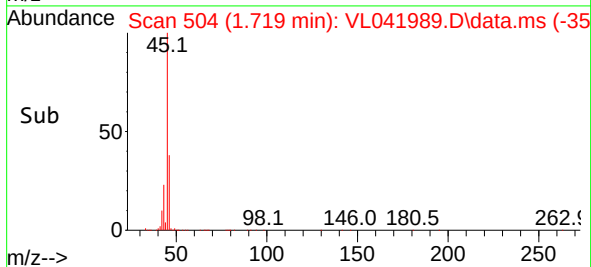
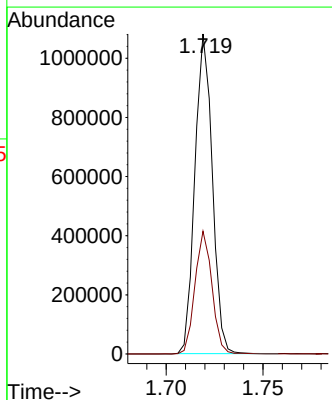
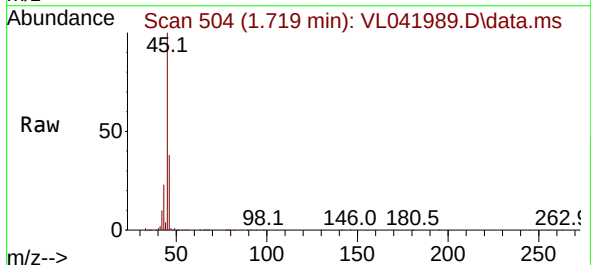
Manual Integrations
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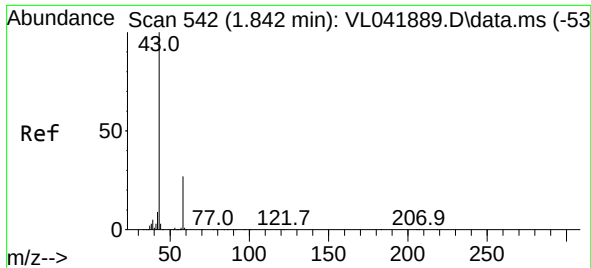
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#13
Ethanol
Concen: 1090.109 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.006 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

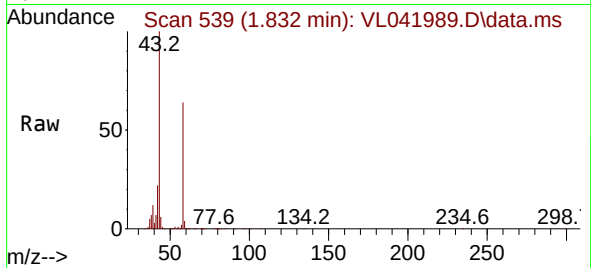
Tgt Ion: 45 Resp: 675322
Ion Ratio Lower Upper
45 100
46 37.7 18.1 72.5





#15
Acetone
Concen: 133.728 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

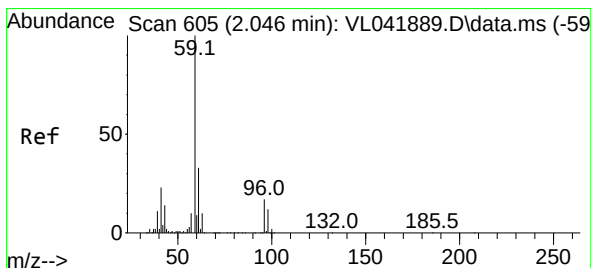
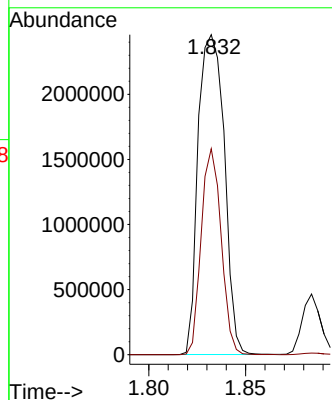
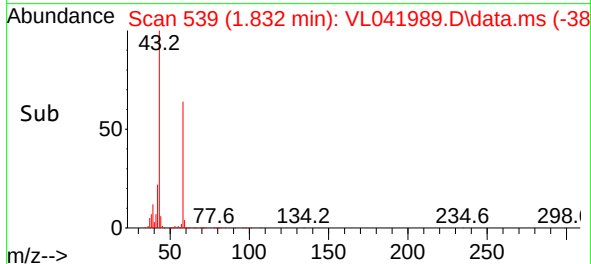
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 2310992
Ion Ratio Lower Upper
43 100
58 49.1 21.9 32.9

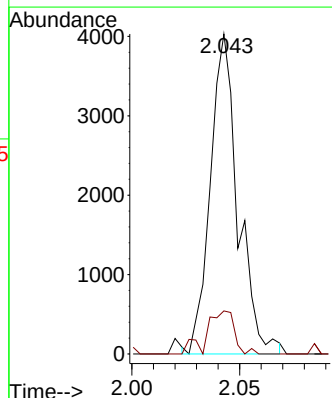
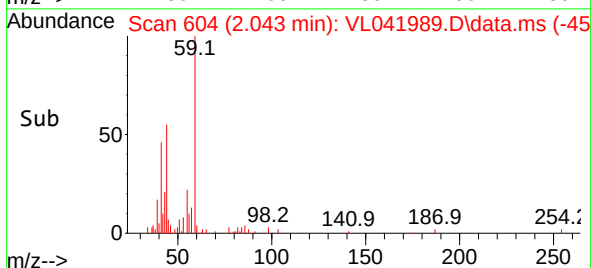
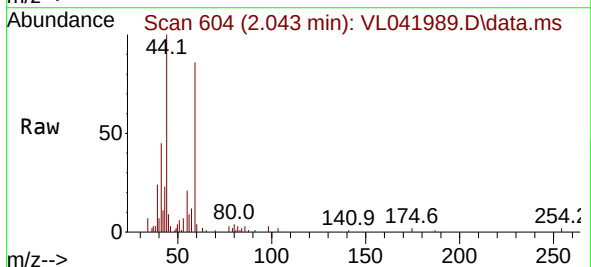
Manual Integrations
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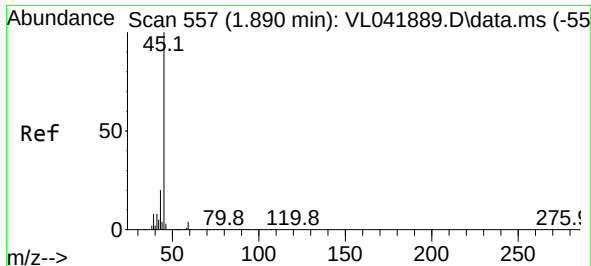
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#17
tert-Butyl alcohol
Concen: 0.169 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. -0.003 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

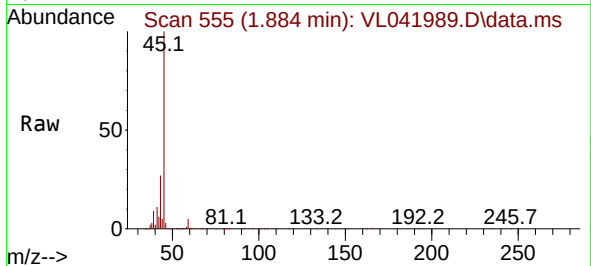
Tgt Ion: 59 Resp: 3605
Ion Ratio Lower Upper
59 100
57 135.0 7.8 11.8





#19
Isopropyl Alcohol
Concen: 122.935 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.006 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

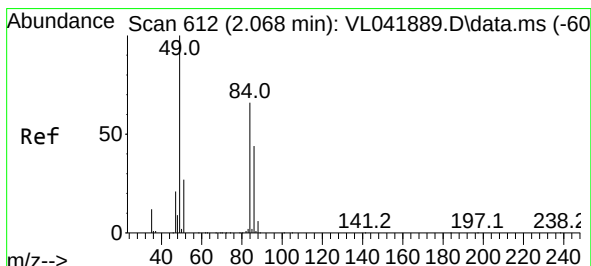
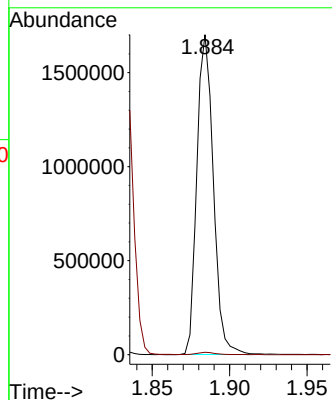
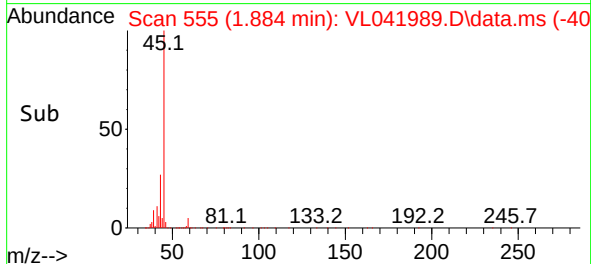
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 1259640
Ion Ratio Lower Upper
45 100
58 90.1 35.0 52.6

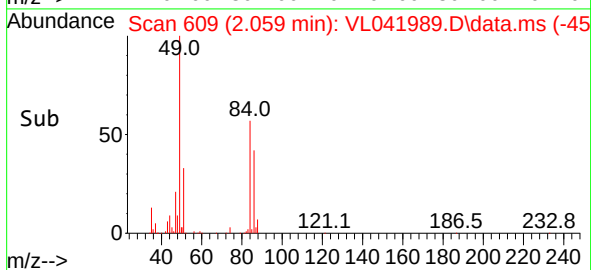
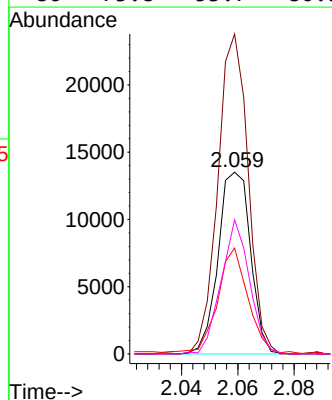
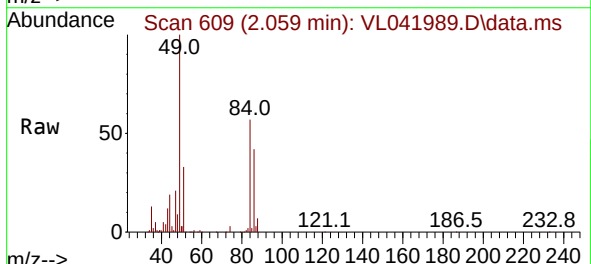
Manual Integrations
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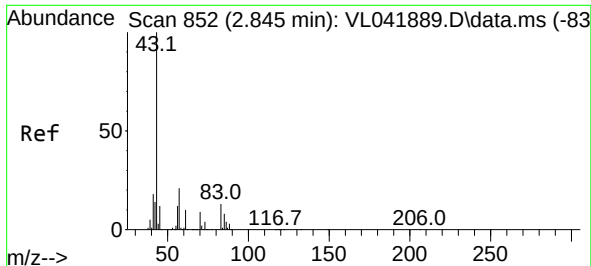
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#20
Methylene Chloride
Concen: 1.581 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

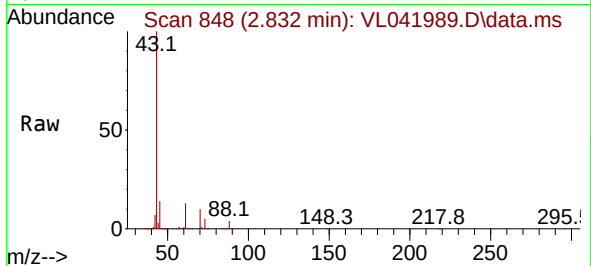
Tgt Ion: 84 Resp: 10800
Ion Ratio Lower Upper
84 100
49 176.0 123.1 184.7
51 57.6 35.8 53.8#
86 73.8 53.7 80.5





#25
Ethyl Acetate
Concen: 11.991 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.013 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

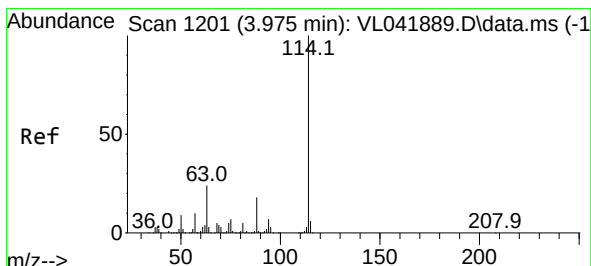
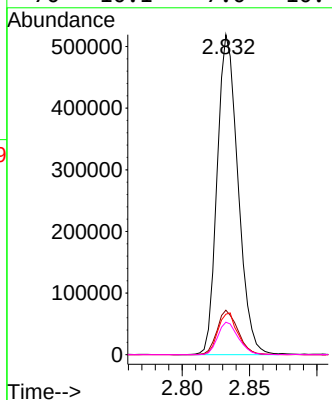
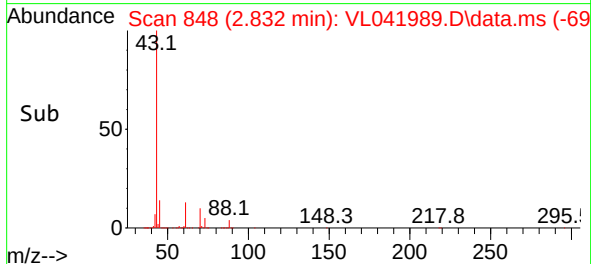
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 55877
Ion Ratio Lower Upper
43 100
45 13.8 8.2 12.2
61 12.6 7.4 11.0
70 10.1 7.0 10.4

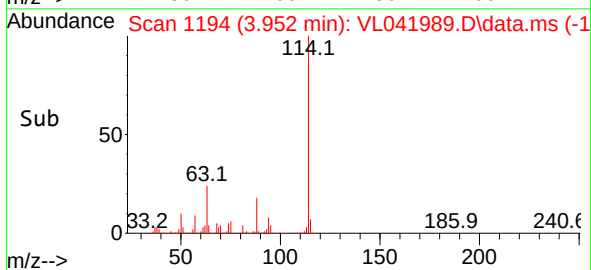
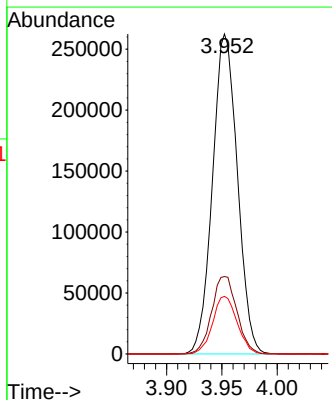
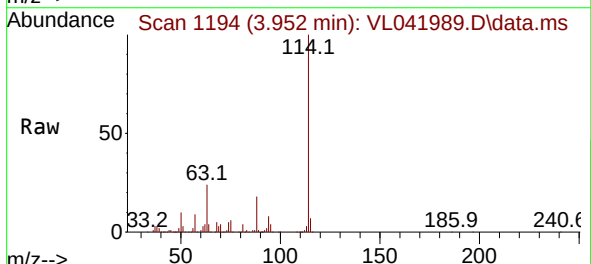
Manual Integrations
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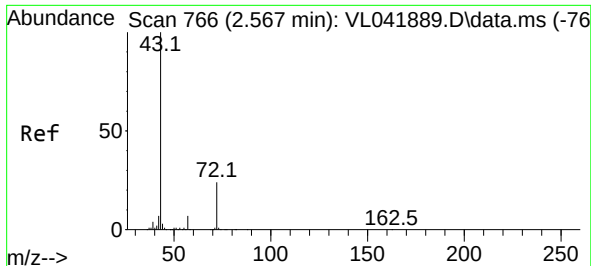
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.022 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

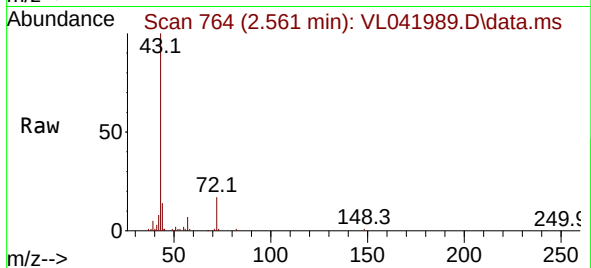
Tgt Ion:114 Resp: 411385
Ion Ratio Lower Upper
114 100
63 24.5 19.8 29.6
88 17.7 14.4 21.6





#34
2-Butanone
Concen: 0.542 ppbv
RT: 2.561 min Scan# 764
Delta R.T. -0.006 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

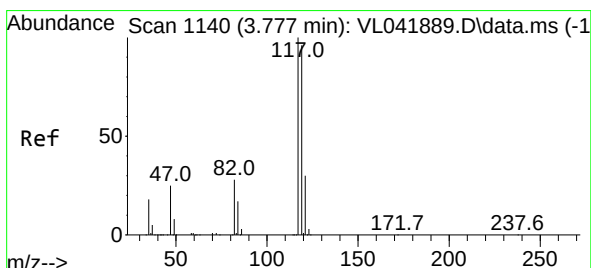
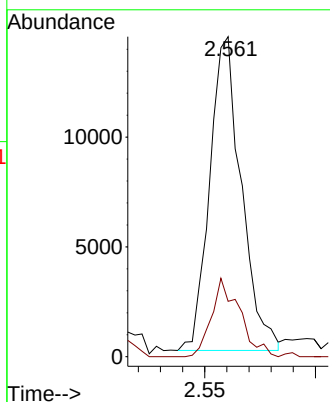
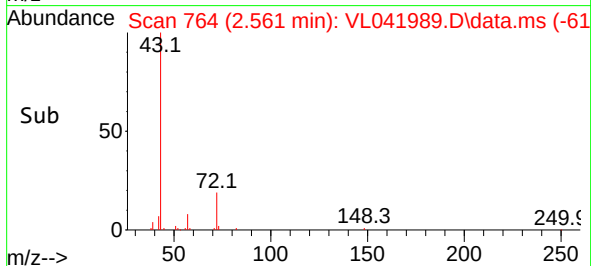
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 14190
Ion Ratio Lower Upper
43 100
72 23.2 18.6 28.0

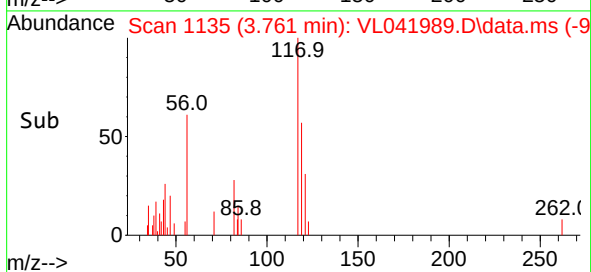
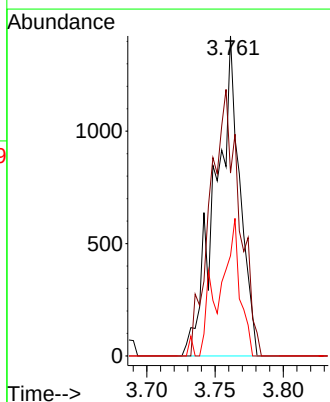
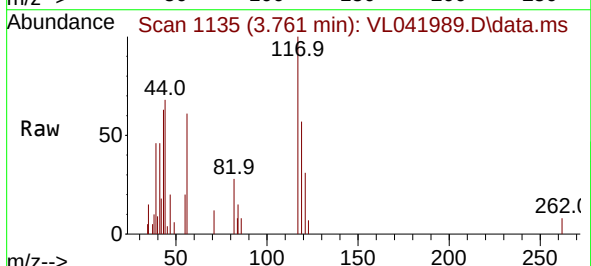
Manual Integrations
APPROVED

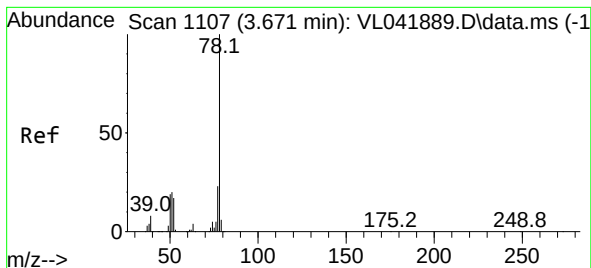
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. -0.016 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

Tgt Ion:117 Resp: 1770
Ion Ratio Lower Upper
117 100
119 57.2 76.9 115.3#
121 31.3 23.8 35.6





#36

Benzene

Concen: 0.410 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.019 min

Lab File: VL041989.D

Acq: 10 Feb 2025 15:43

Instrument :

MSVOA_L

ClientSampleId :

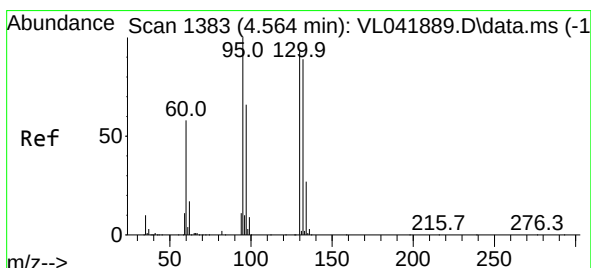
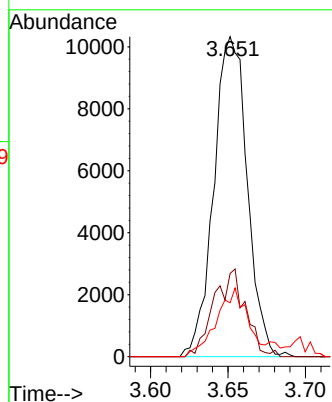
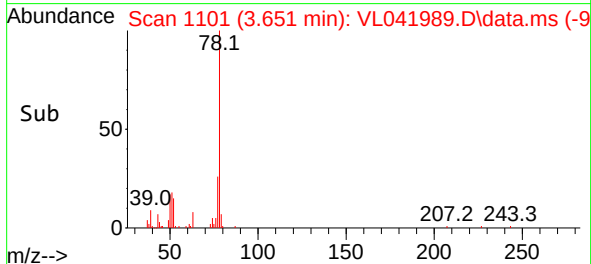
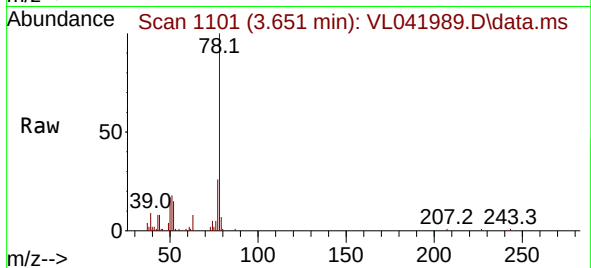
IA1

Tgt Ion: 78	Resp: 1547
Ion Ratio	Lower Upper
78 100	
77 26.0	18.1 27.1
50 16.8	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: 0.032 ppbv m

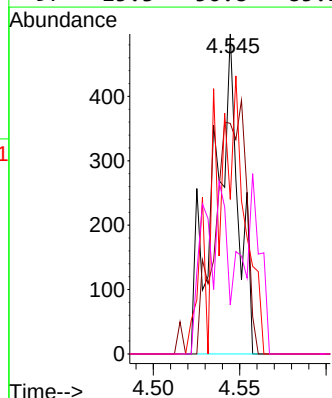
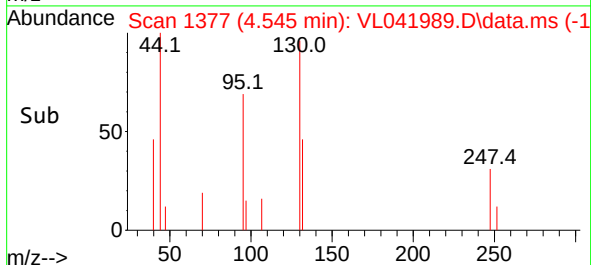
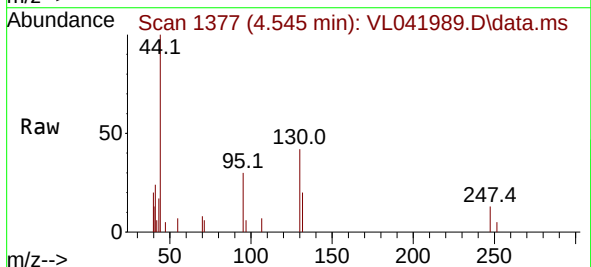
RT: 4.545 min Scan# 1377

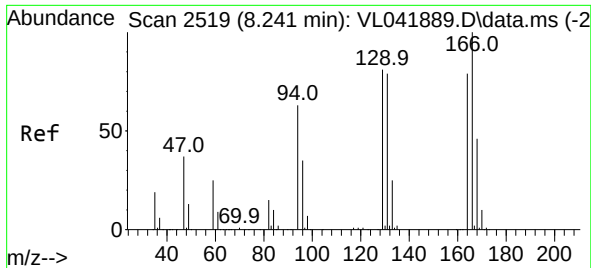
Delta R.T. -0.019 min

Lab File: VL041989.D

Acq: 10 Feb 2025 15:43

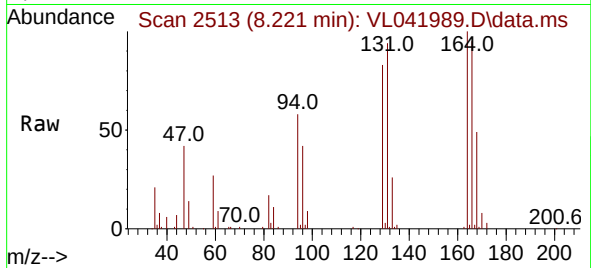
Tgt Ion:130	Resp: 484
Ion Ratio	Lower Upper
130 100	
95 72.0	85.8 128.8#
132 48.3	76.5 114.7#
97 15.3	56.8 85.2#





#52
Tetrachloroethene
Concen: 1.534 ppbv
RT: 8.221 min Scan# 2113
Delta R.T. -0.019 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

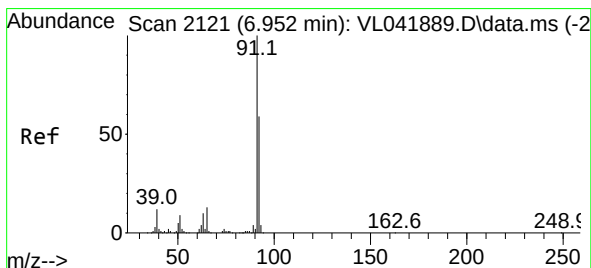
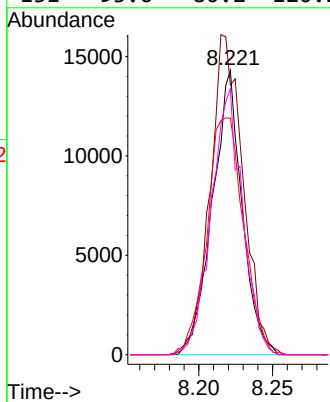
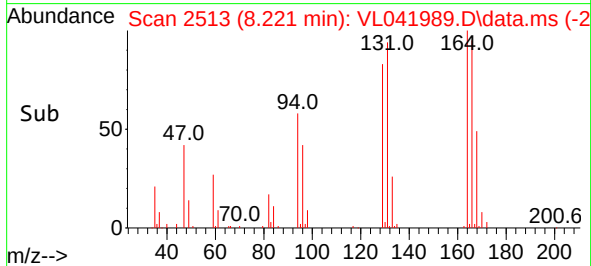
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 2007
Ion Ratio Lower Upper
164 100
166 93.5 100.8 151.2
129 82.4 82.0 123.0
131 93.6 80.2 120.2

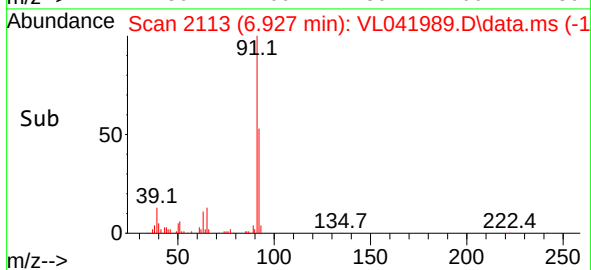
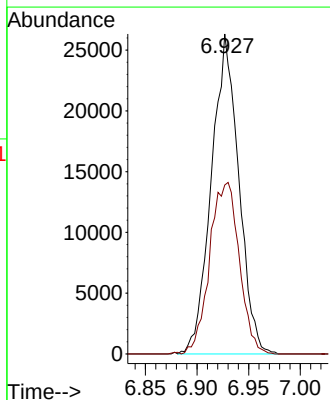
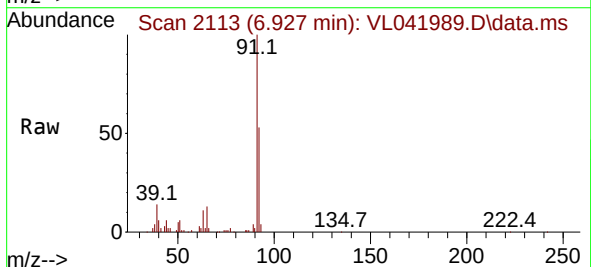
Manual Integrations
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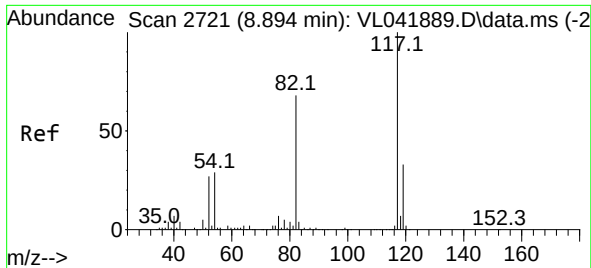
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#53
Toluene
Concen: 1.180 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.026 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

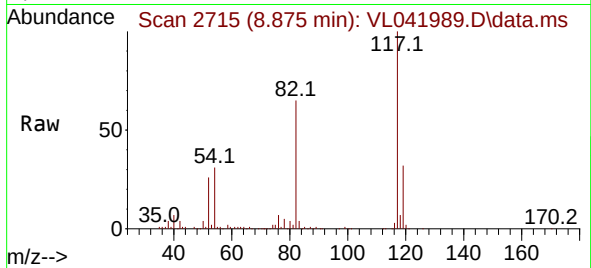
Tgt Ion: 91 Resp: 48493
Ion Ratio Lower Upper
91 100
92 58.1 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.019 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

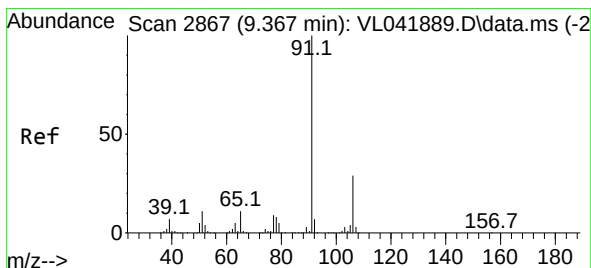
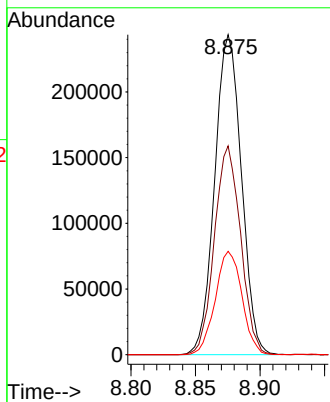
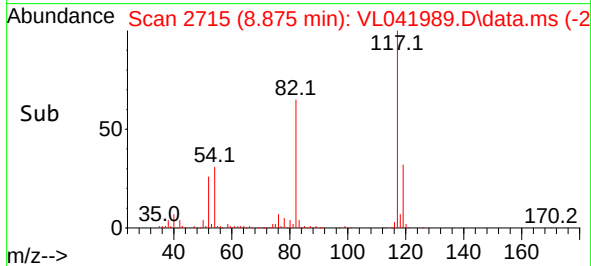
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 350508
Ion Ratio Lower Upper
117 100
82 64.0 54.2 81.4
119 32.3 25.0 37.6

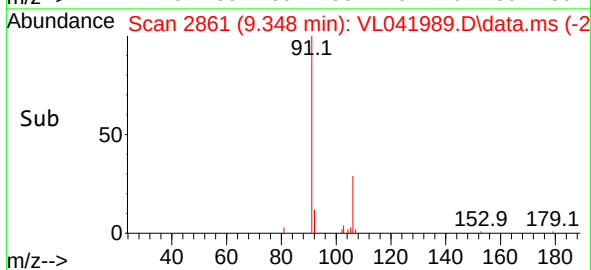
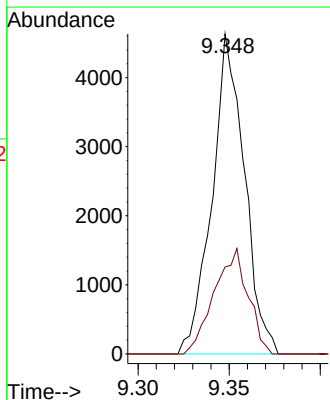
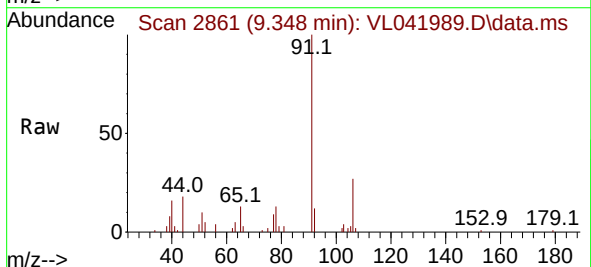
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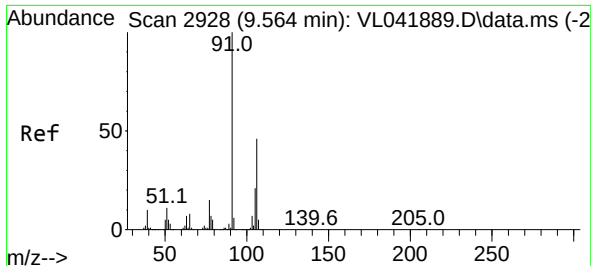
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#58
Ethyl Benzene
Concen: 0.104 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.019 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

Tgt Ion: 91 Resp: 5704
Ion Ratio Lower Upper
91 100
106 27.2 23.1 34.7





#59

m/p-Xylene

Concen: 0.307 ppbv m

RT: 9.523 min Scan# 2915

Delta R.T. -0.042 min

Lab File: VL041889.D

Acq: 10 Feb 2025 15:43

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 13469

Ion Ratio Lower Upper

91 100

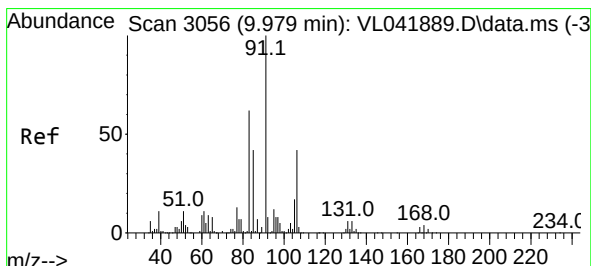
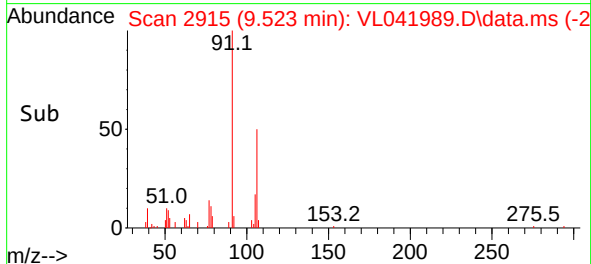
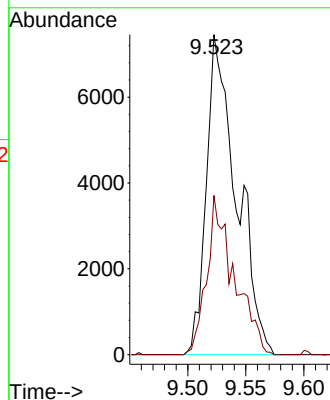
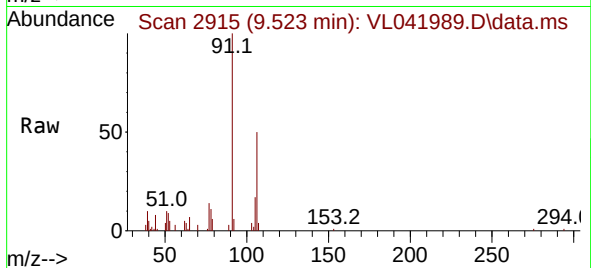
106 0.0 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

o-Xylene

Concen: 0.138 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.022 min

Lab File: VL041889.D

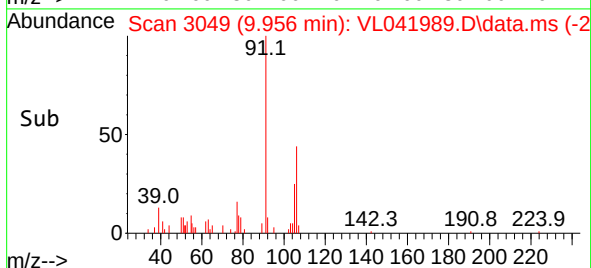
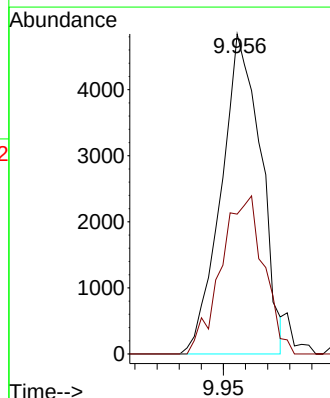
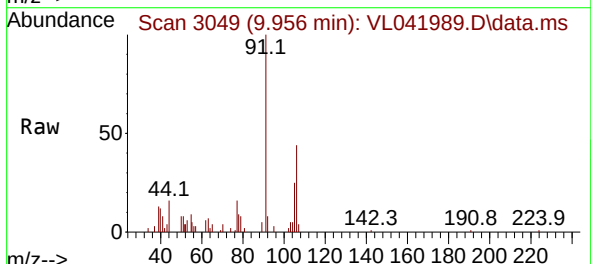
Acq: 10 Feb 2025 15:43

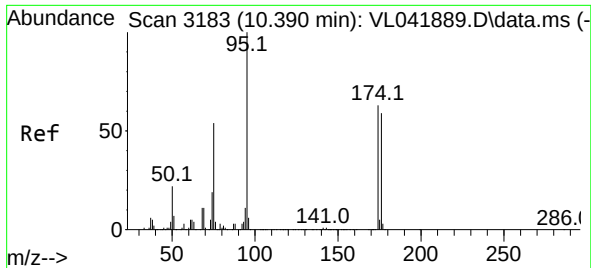
Tgt Ion: 91 Resp: 6020

Ion Ratio Lower Upper

91 100

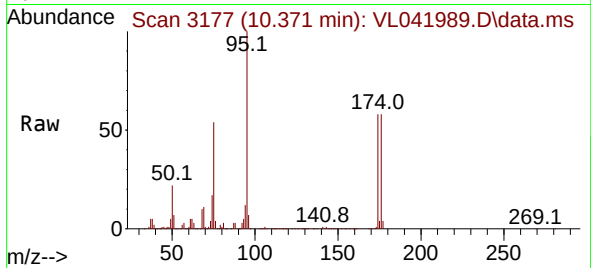
106 53.4 21.3 63.9





#68
1-Bromo-4-Fluorobenzene
Concen: 9.361 ppbv
RT: 10.371 min Scan# 3183
Delta R.T. -0.019 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 95 Resp: 25844
Ion Ratio Lower Upper
95 100
174 61.3 49.0 73.4
175 4.4 3.8 5.8

Manual Integrations
APPROVED

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

