

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
 Data File : VL042083.D
 Acq On : 03 Mar 2025 18:26
 Operator : SY/MD
 Sample : Q1430-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:20:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	159834	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.955	114	351160	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	298456	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	220011	9.582	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2542	0.153	ppbv #	86
9) Propene	1.482	41	6105	0.645	ppbv	85
13) Ethanol	1.719	45	41685	69.388	ppbv	92
15) Acetone	1.835	43	40072	2.839	ppbv #	82
17) tert-Butyl alcohol	2.042	59	4626	0.262	ppbv #	89
19) Isopropyl Alcohol	1.887	45	6886	0.849	ppbv #	45
20) Methylene Chloride	2.059	84	1758	0.329	ppbv	97
27) Carbon Disulfide	2.149	76	2795	0.181	ppbv #	1
34) 2-Butanone	2.560	43	93192	3.406	ppbv	94
36) Benzene	3.658	78	7658m	0.208	ppbv	
50) 4-Methyl-2-Pentanone	5.778	43	7390m	0.209	ppbv	
51) 2-Hexanone	7.444	43	8303m	0.341	ppbv	
52) Tetrachloroethene	8.224	164	956m	0.076	ppbv	
53) Toluene	6.927	91	27881m	0.679	ppbv	
59) m/p-Xylene	9.526	91	9044	0.207	ppbv #	100

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

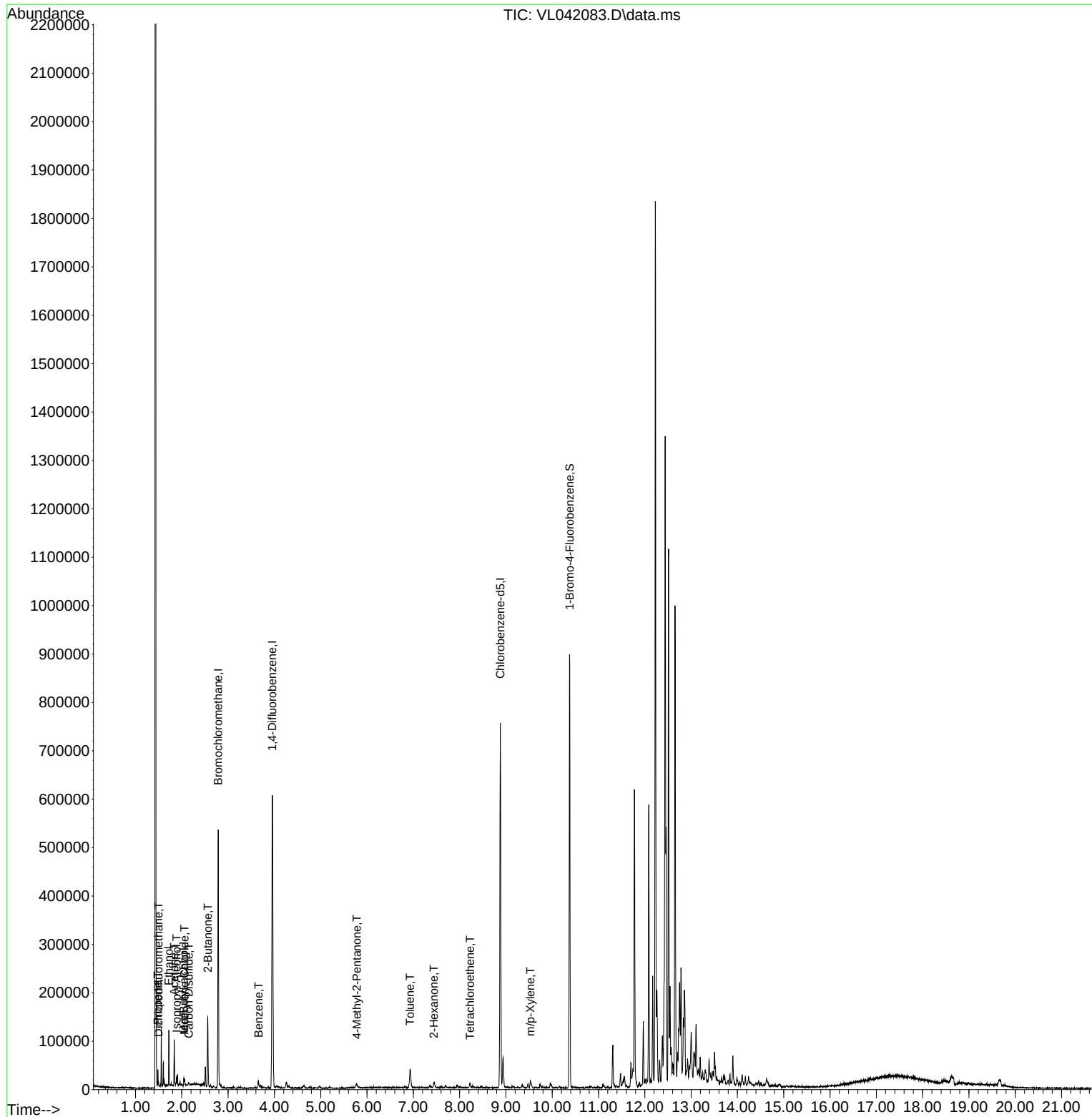
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030325\
Data File : VL042083.D
Acq On : 03 Mar 2025 18:26
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Misc : 400mL/MSVOA_L
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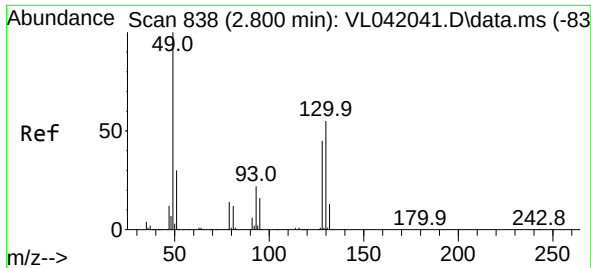
Instrument :
MSVOA_L
ClientSampleId :
SV4

Manual Integrations
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Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:20:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration





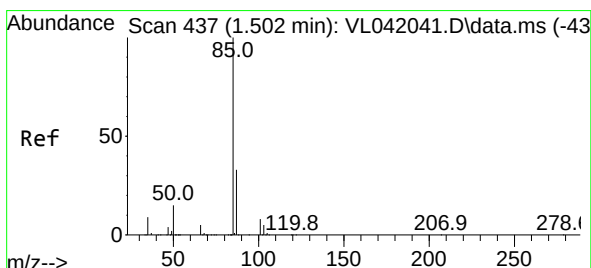
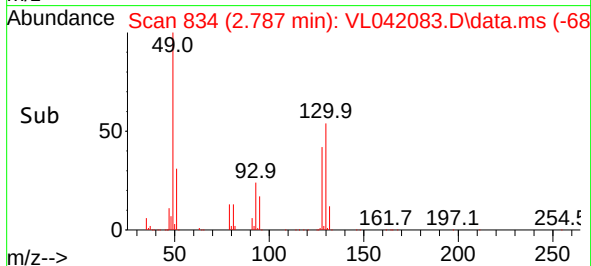
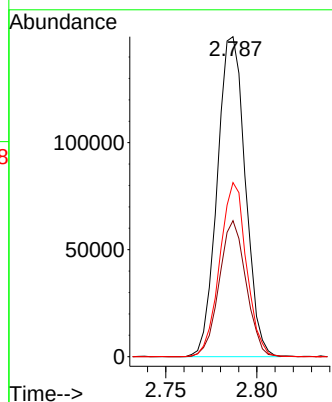
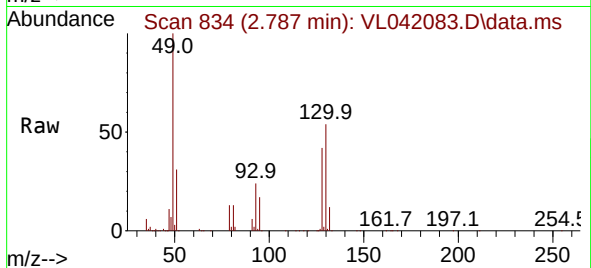
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 49 Resp: 159834
Ion Ratio Lower Upper
49 100
128 40.8 21.6 64.8
130 51.9 27.8 83.4

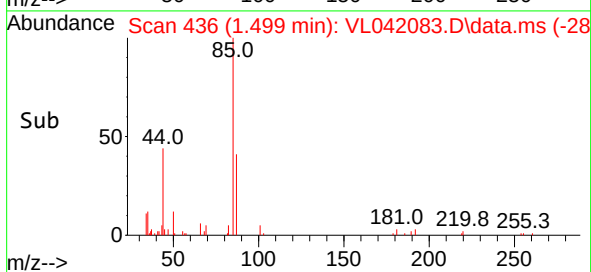
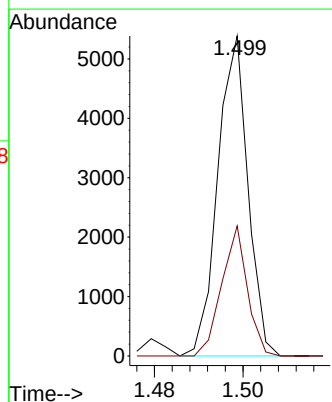
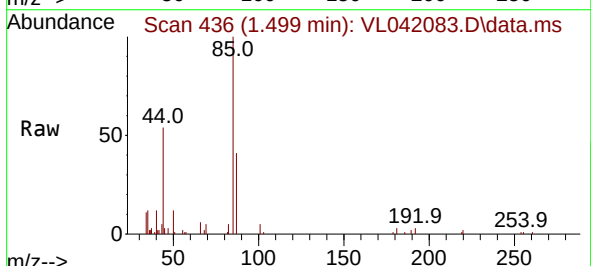
Manual Integrations
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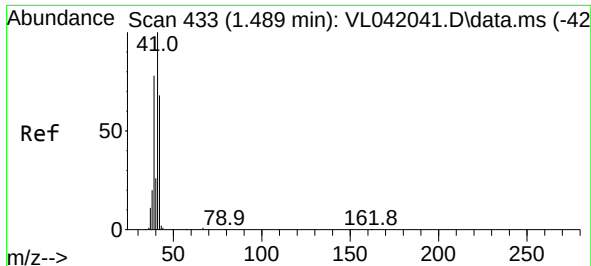
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#2
Dichlorodifluoromethane
Concen: 0.153 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

Tgt Ion: 85 Resp: 2542
Ion Ratio Lower Upper
85 100
87 40.7 26.4 39.6#





#9

Propene

Concen: 0.645 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.007 min

Lab File: VL042083.D

Acq: 03 Mar 2025 18:26

Instrument :

MSVOA_L

ClientSampleId :

SV4

Tgt Ion: 41 Resp: 610

Ion Ratio Lower Upper

41 100

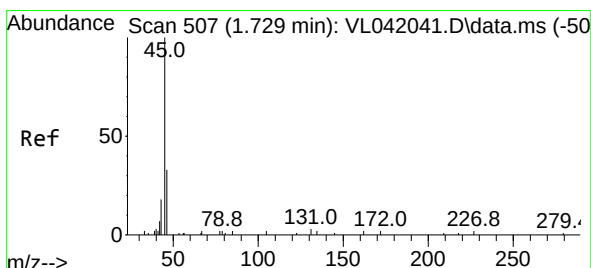
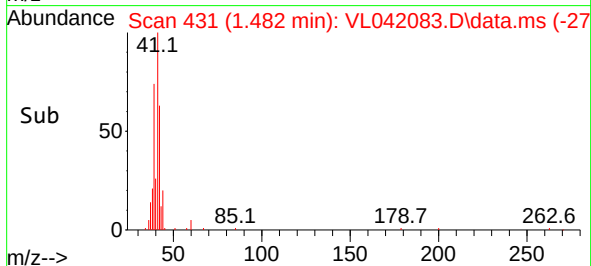
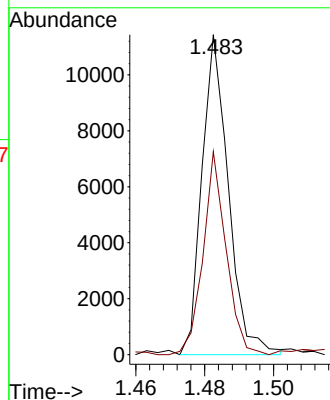
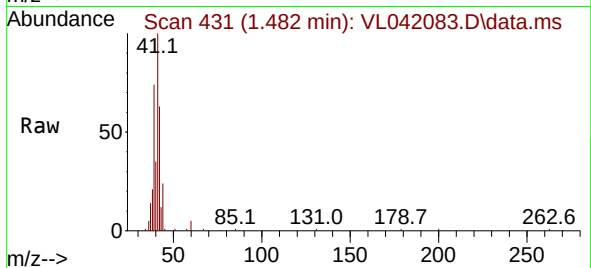
42 57.7 55.8 83.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/04/2025

Supervised By :Mahesh Dadoda 03/05/2025



#13

Ethanol

Concen: 69.388 ppbv

RT: 1.719 min Scan# 504

Delta R.T. -0.010 min

Lab File: VL042083.D

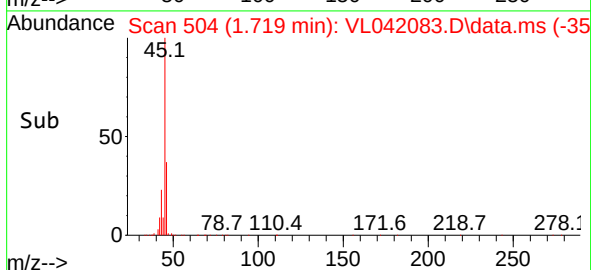
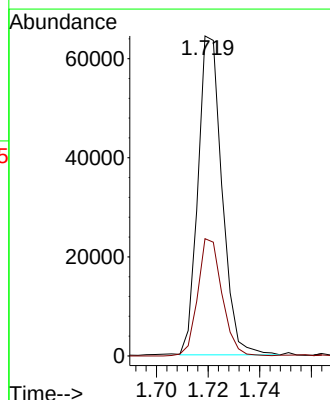
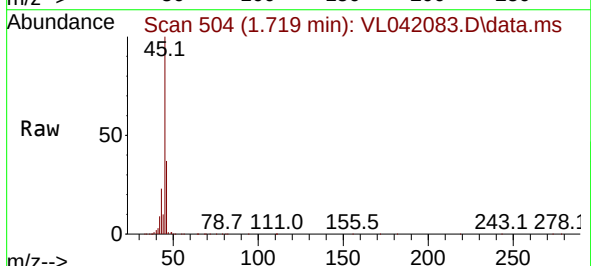
Acq: 03 Mar 2025 18:26

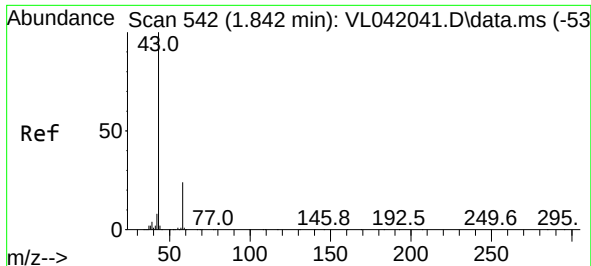
Tgt Ion: 45 Resp: 41685

Ion Ratio Lower Upper

45 100

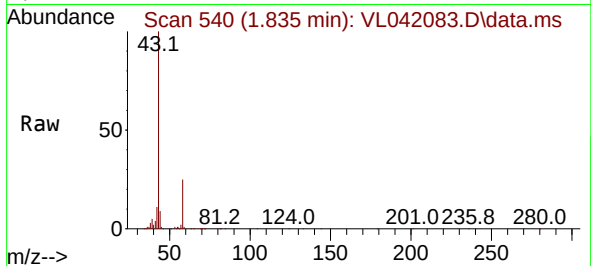
46 37.9 17.1 68.3





#15
Acetone
Concen: 2.839 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.007 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

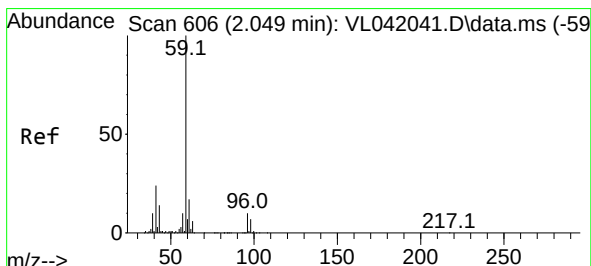
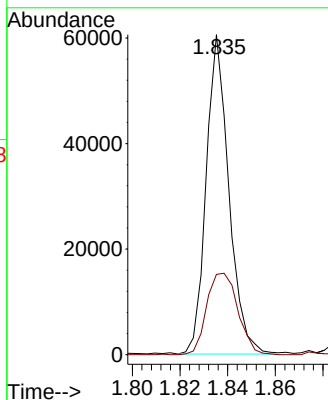
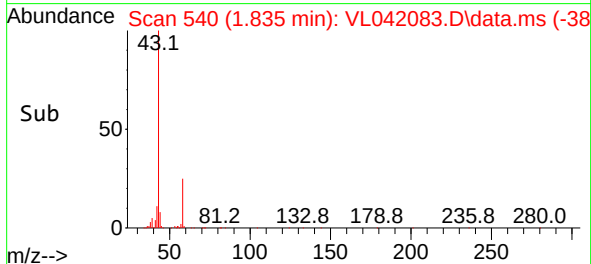
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion: 43 Resp: 40072
Ion Ratio Lower Upper
43 100
58 35.0 20.7 31.1

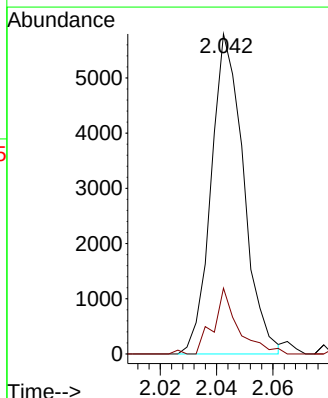
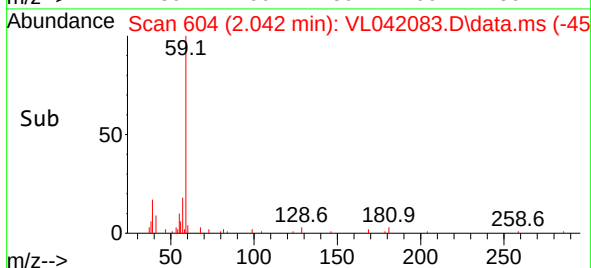
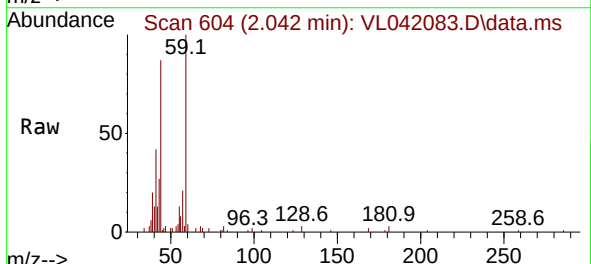
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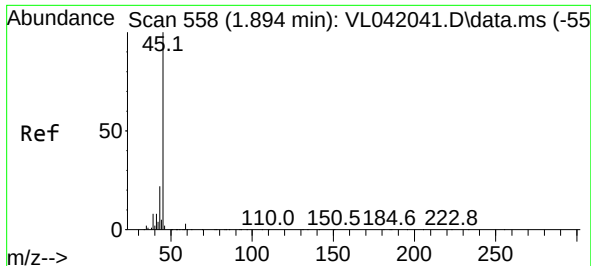
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#17
tert-Butyl alcohol
Concen: 0.262 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.007 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

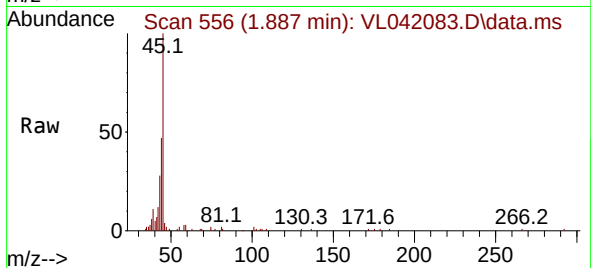
Tgt Ion: 59 Resp: 4626
Ion Ratio Lower Upper
59 100
57 15.8 9.3 13.9





#19
Isopropyl Alcohol
Concen: 0.849 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.007 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

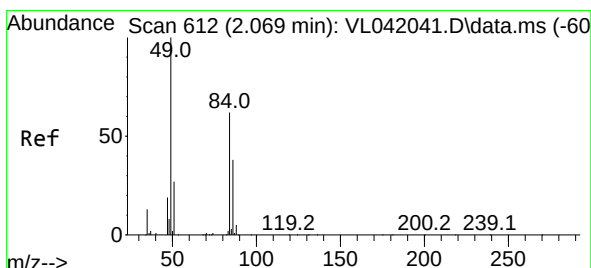
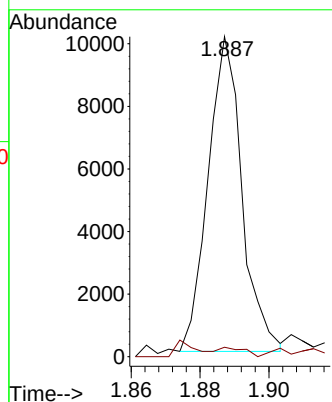
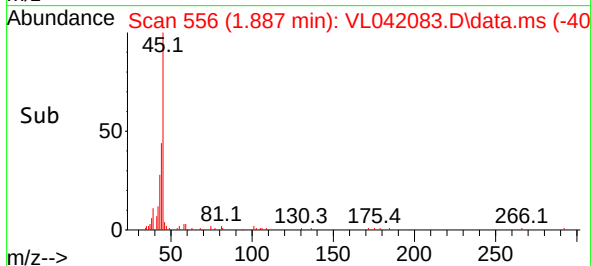
Instrument :
MSVOA_L
ClientSampleId :
SV4



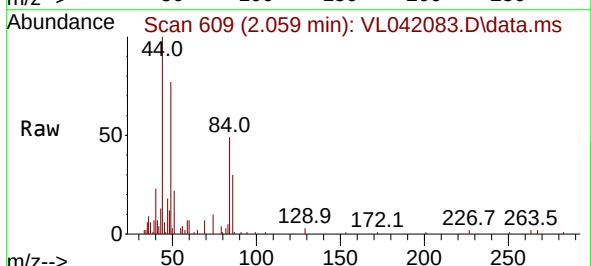
Tgt Ion: 45 Resp: 6880
Ion Ratio Lower Upper
45 100
58 8.7 35.3 52.9

Manual Integrations
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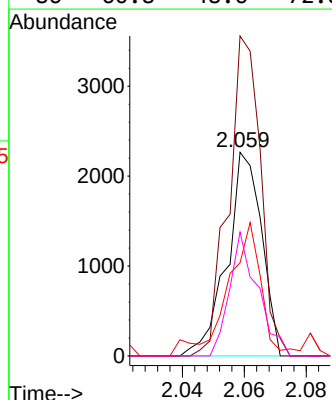
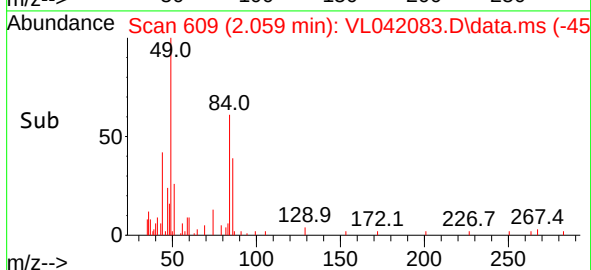
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

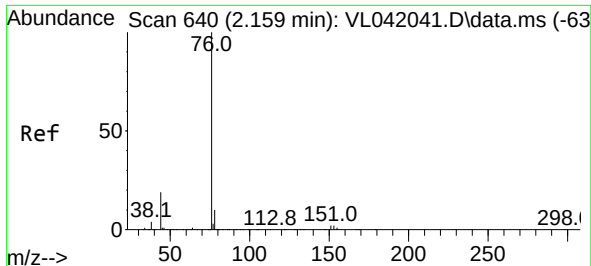


#20
Methylene Chloride
Concen: 0.329 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26



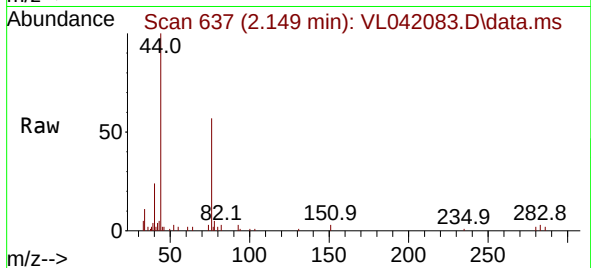
Tgt Ion: 84 Resp: 1758
Ion Ratio Lower Upper
84 100
49 157.1 130.0 195.0
51 42.9 37.4 56.0
86 60.8 48.6 72.8





#27
Carbon Disulfide
Concen: 0.181 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

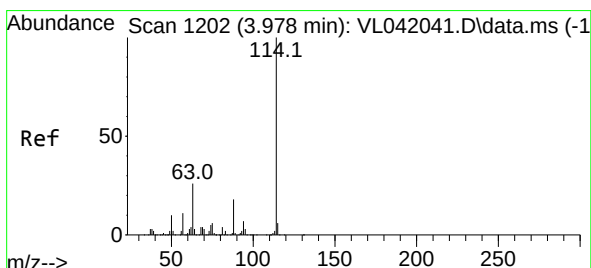
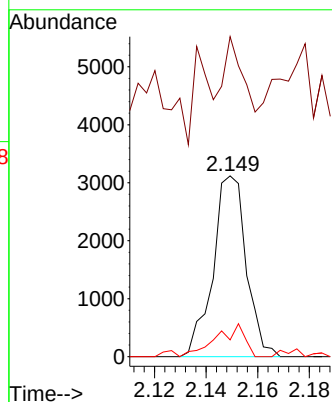
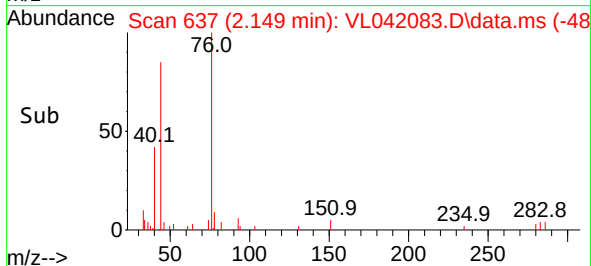
Instrument :
MSVOA_L
ClientSampleId :
SV4



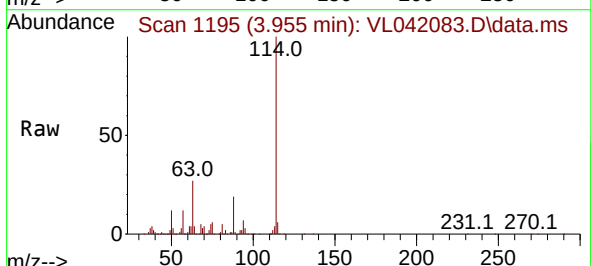
Tgt Ion: 76 Resp: 279
Ion Ratio Lower Upper
76 100
44 234.9 16.2 24.2
78 25.7 9.4 14.0

Manual Integrations
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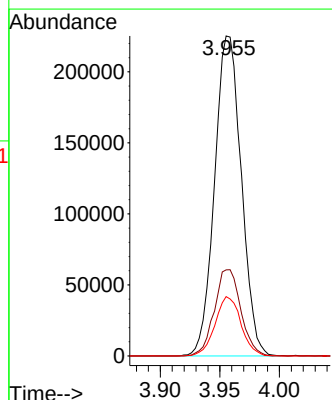
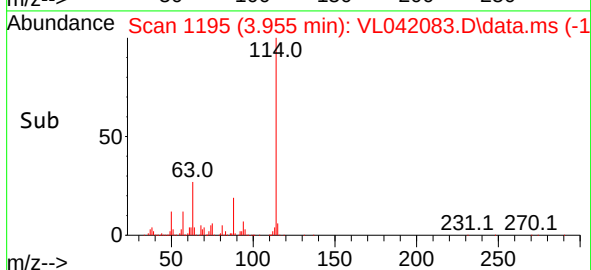
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

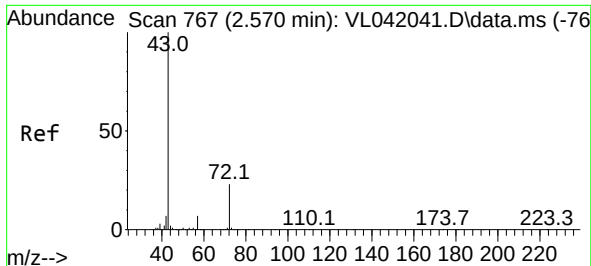


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.023 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26



Tgt Ion:114 Resp: 351160
Ion Ratio Lower Upper
114 100
63 26.8 20.1 30.1
88 17.9 14.3 21.5





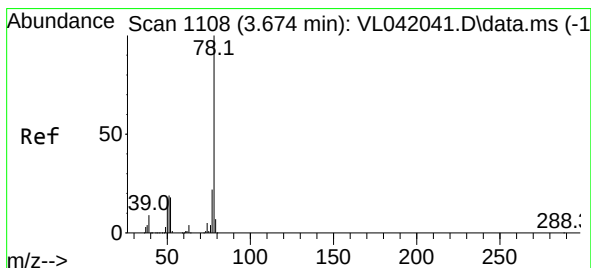
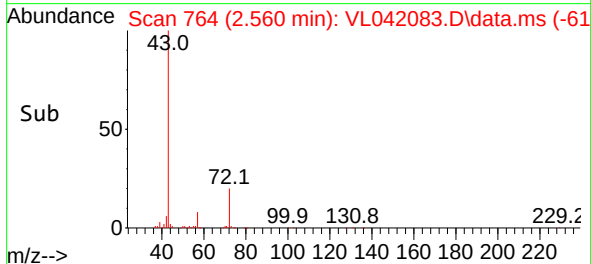
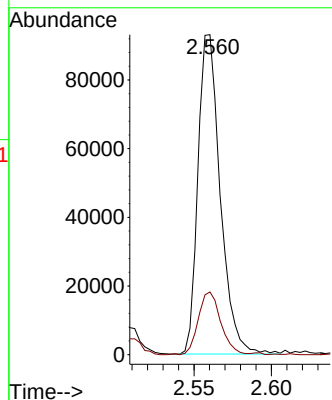
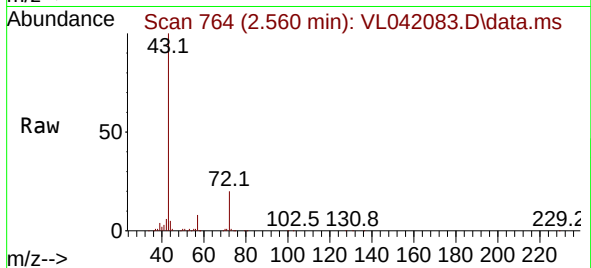
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2-Butanone
Concen: 3.406 ppbv
RT: 2.560 min Scan# 70
Delta R.T. -0.010 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 43 Resp: 93192
Ion Ratio Lower Upper
43 100
72 20.2 18.5 27.7

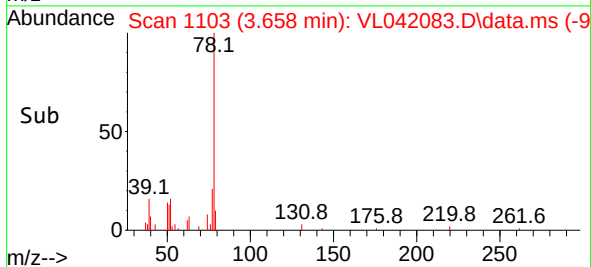
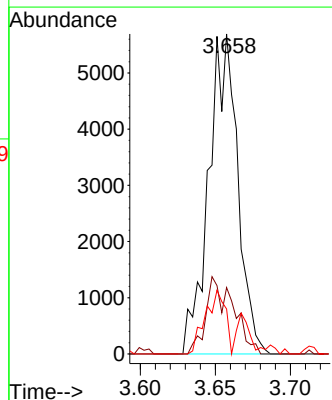
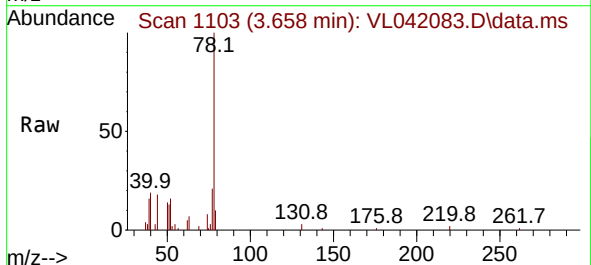
Manual Integrations
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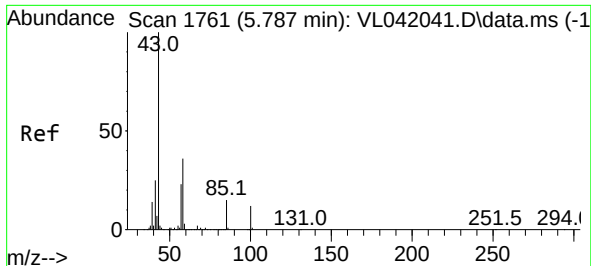
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#36
Benzene
Concen: 0.208 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. -0.016 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

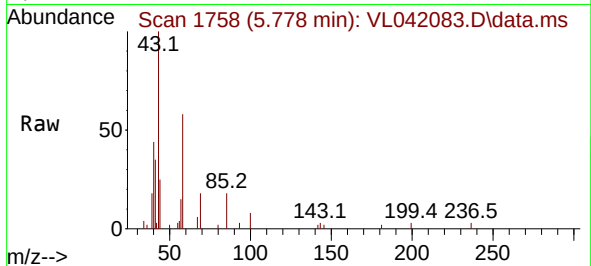
Tgt Ion: 78 Resp: 7658
Ion Ratio Lower Upper
78 100
77 20.7 17.7 26.5
50 14.0 13.9 20.9





#50
4-Methyl-2-Pentanone
Concen: 0.209 ppbv m
RT: 5.778 min Scan# 1758
Delta R.T. -0.010 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

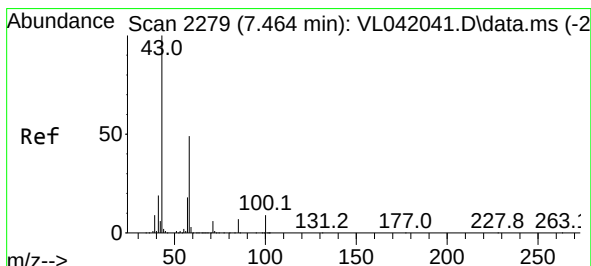
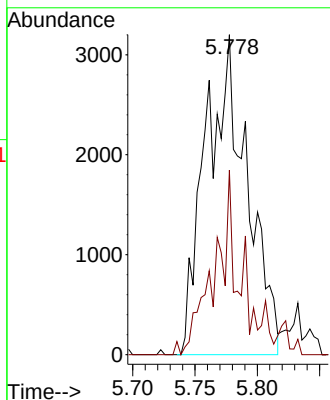
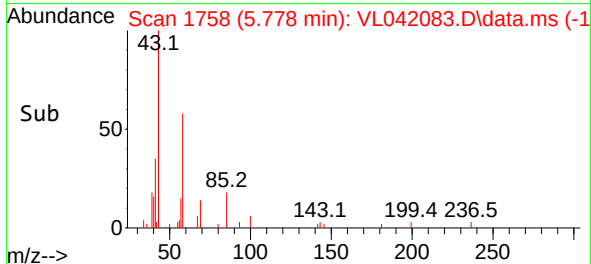
Instrument :
MSVOA_L
ClientSampleId :
SV4



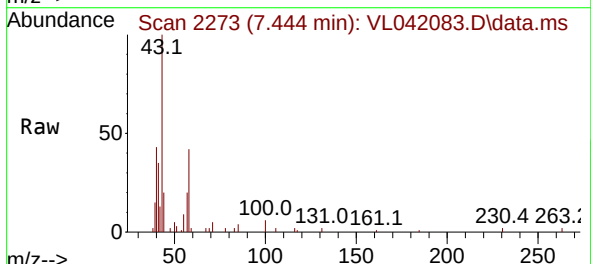
Tgt Ion: 43 Resp: 7390
Ion Ratio Lower Upper
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58 0.0 29.3 43.9

Manual Integrations
APPROVED

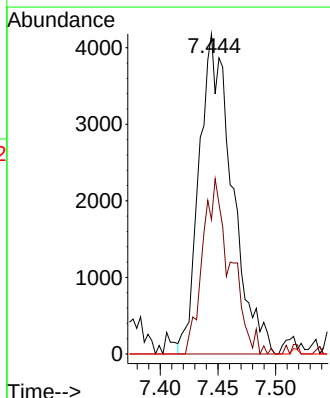
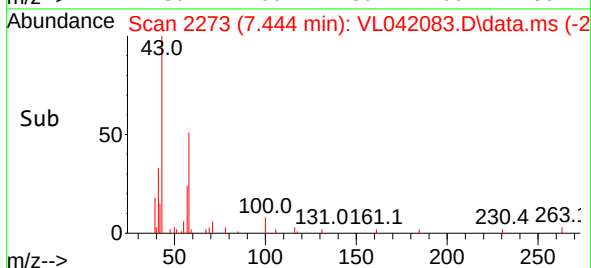
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025

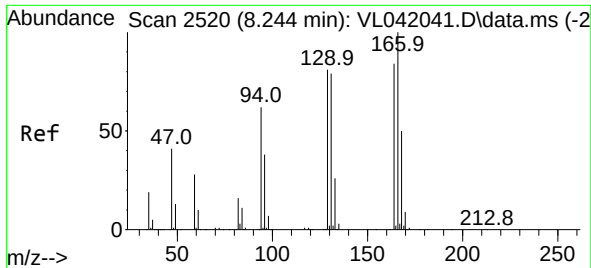


#51
2-Hexanone
Concen: 0.341 ppbv m
RT: 7.444 min Scan# 2273
Delta R.T. -0.020 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26



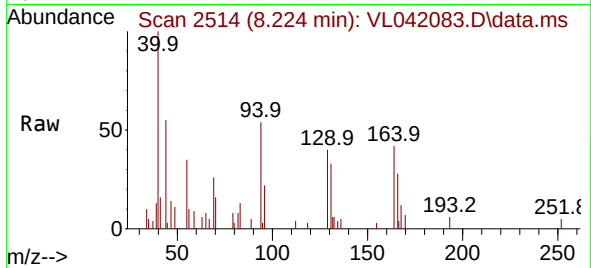
Tgt Ion: 43 Resp: 8303
Ion Ratio Lower Upper
43 100
58 0.0 39.0 58.6#
98 0.0 0.1 0.1#





#52
Tetrachloroethene
Concen: 0.076 ppbv m
RT: 8.224 min Scan# 2113
Delta R.T. -0.020 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

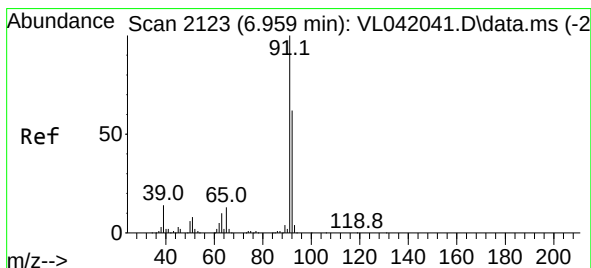
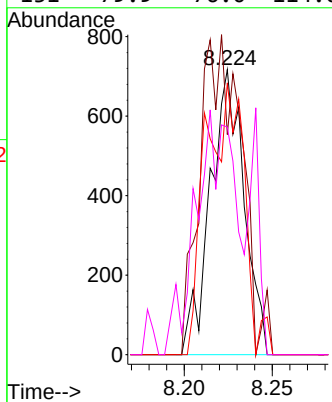
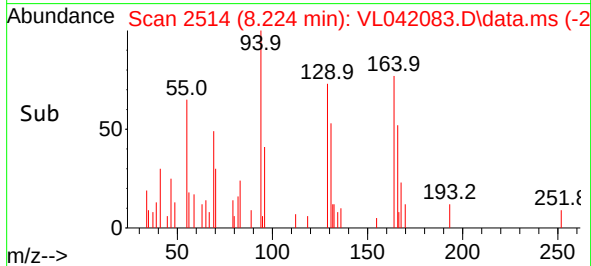
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion:164 Resp: 950
Ion Ratio Lower Upper
164 100
166 67.4 95.7 143.5
129 95.4 77.1 115.7
131 79.9 76.0 114.0

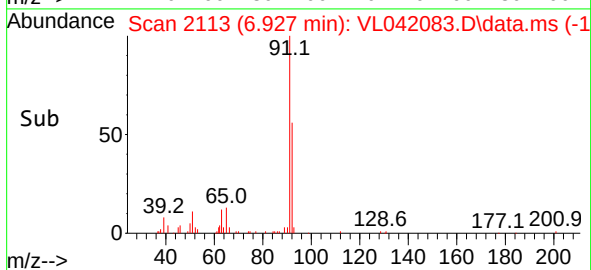
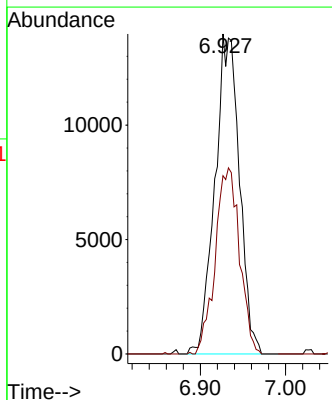
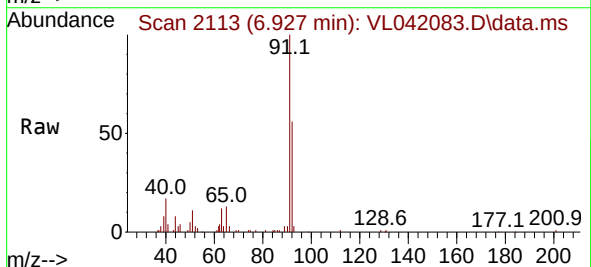
Manual Integrations
APPROVED

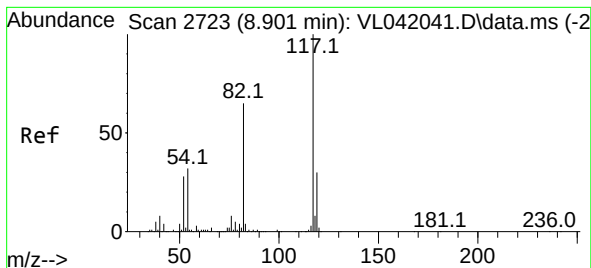
Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#53
Toluene
Concen: 0.679 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. -0.033 min
Lab File: VL042083.D
Acq: 03 Mar 2025 18:26

Tgt Ion: 91 Resp: 27881
Ion Ratio Lower Upper
91 100
92 0.0 49.0 73.6#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 2116

Delta R.T. -0.023 min

Lab File: VL042083.D

Acq: 03 Mar 2025 18:26

Instrument :

MSVOA_L

ClientSampleId :

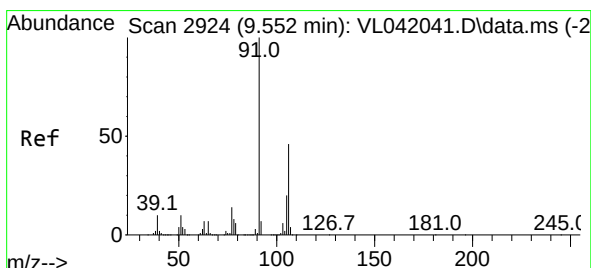
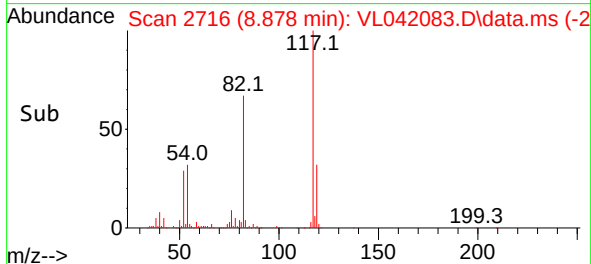
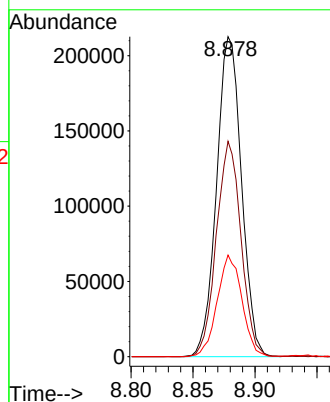
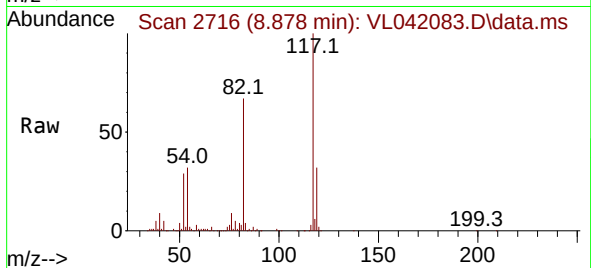
SV4

Tgt Ion:117	Resp:	298450
Ion Ratio	Lower	Upper
117	100	
82	66.6	55.0 82.6
119	31.5	25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
Supervised By :Mahesh Dadoda 03/05/2025



#59

m/p-Xylene

Concen: 0.207 ppbv

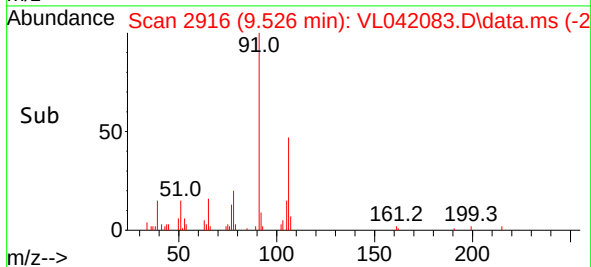
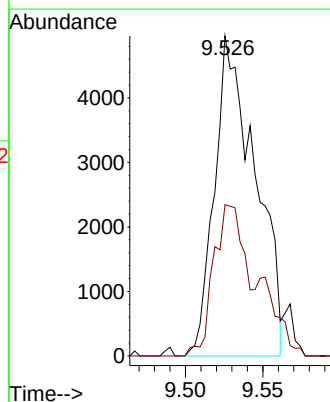
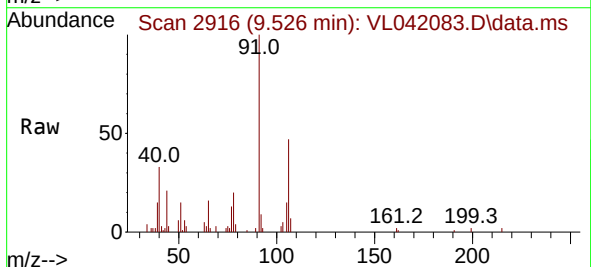
RT: 9.526 min Scan# 2916

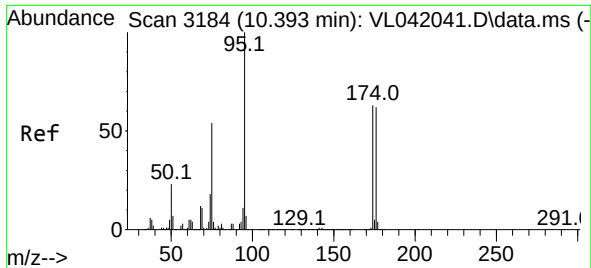
Delta R.T. -0.026 min

Lab File: VL042083.D

Acq: 03 Mar 2025 18:26

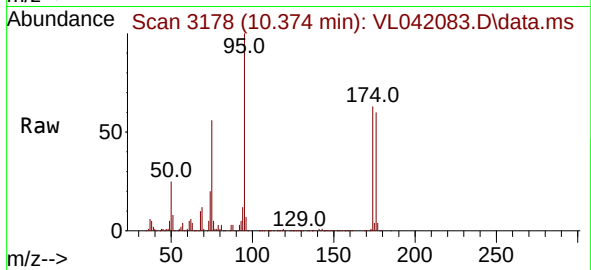
Tgt Ion: 91	Resp:	9044
Ion Ratio	Lower	Upper
91	100	
106	49.7	0.0 0.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.582 ppbv
 RT: 10.374 min Scan# 31
 Delta R.T. -0.020 min
 Lab File: VL042083.D
 Acq: 03 Mar 2025 18:26

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4



Tgt Ion: 95 Resp: 22001
 Ion Ratio Lower Upper
 95 100
 174 63.5 51.8 77.6
 175 4.5 3.9 5.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025
 Supervised By :Mahesh Dadoda 03/05/2025

