

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043225.D
 Acq On : 18 Nov 2025 22:05
 Operator : SY/MD
 Sample : Q3650-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:41:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	93706	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	243965	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	191464	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	144231	10.277	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	1498	0.113	ppbv #	82
9) Propene	1.483	41	5049	0.915	ppbv #	1
10) Heptane	4.975	43	18772	1.143	ppbv	99
13) Ethanol	1.722	45	31101	16.025	ppbv	98
15) Acetone	1.835	43	129322	9.933	ppbv	98
19) Isopropyl Alcohol	1.887	45	17070	2.320	ppbv #	1
20) Methylene Chloride	2.065	84	7438	1.252	ppbv	85
26) Hexane	2.826	57	80300	6.523	ppbv #	42
29) Chloroform	2.852	83	9485	0.542	ppbv	97
30) Cyclohexane	3.855	84	3168	0.307	ppbv	96
34) 2-Butanone	2.560	43	3662	0.213	ppbv	93
36) Benzene	3.651	78	4197	0.180	ppbv #	92
41) Tetrahydrofuran	3.062	42	1915m	0.201	ppbv	
52) Tetrachloroethene	8.228	164	389m	0.045	ppbv	
53) Toluene	6.927	91	35245	1.274	ppbv	96
58) Ethyl Benzene	9.348	91	13112	0.356	ppbv	93
59) m/p-Xylene	9.526	91	20983	0.710	ppbv	96
60) o-Xylene	9.959	91	9061	0.307	ppbv	99

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

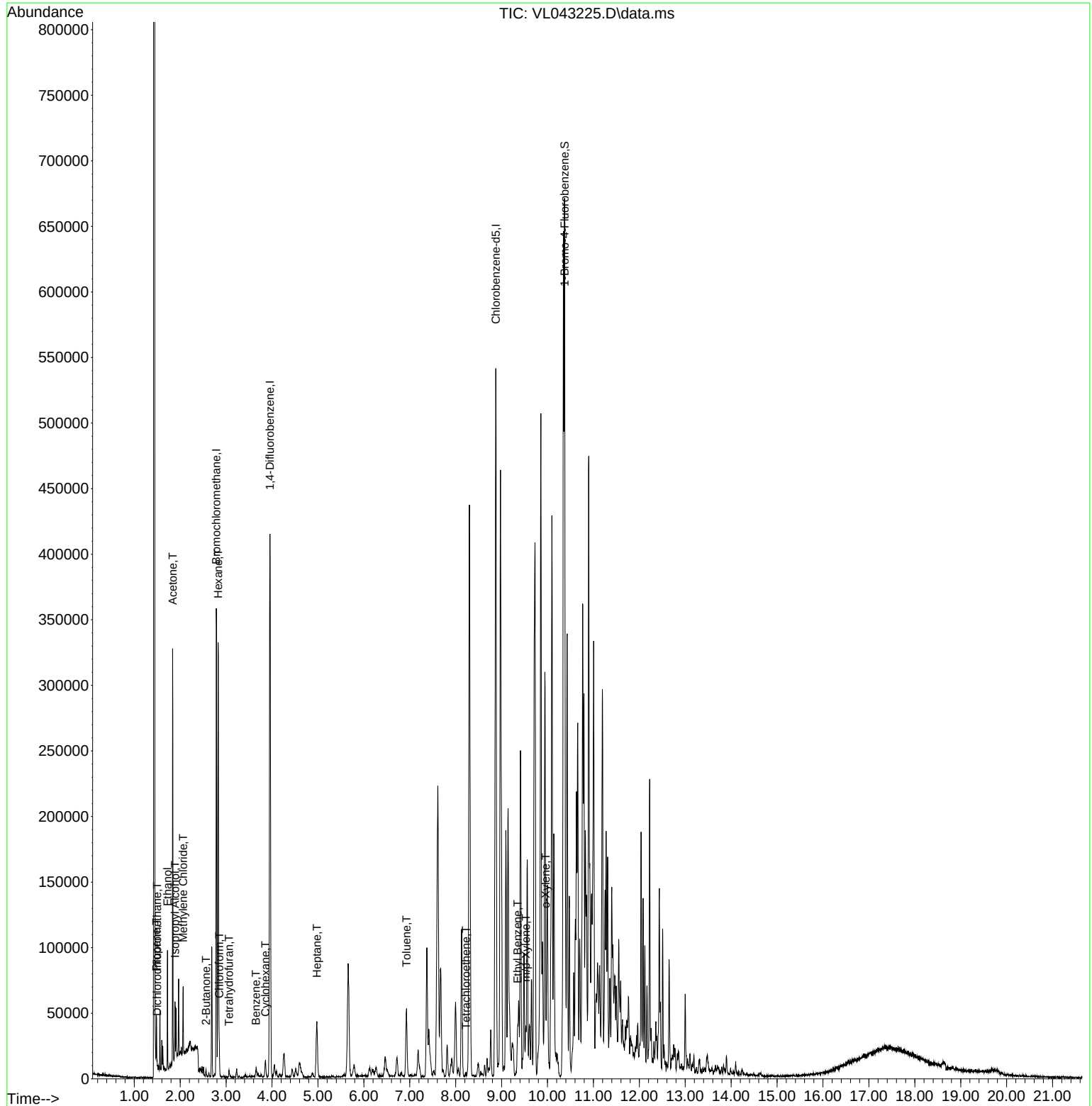
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043225.D
Acq On : 18 Nov 2025 22:05
Operator : SY/MD
Sample : Q3650-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

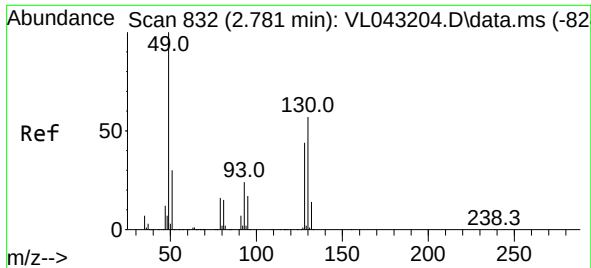
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Nov 19 01:41:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

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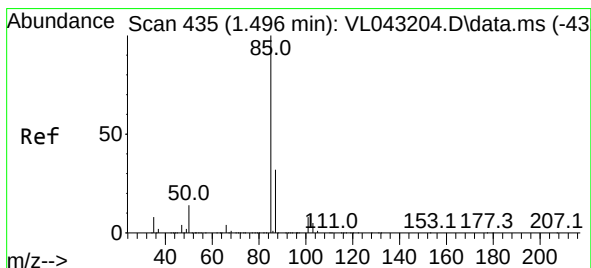
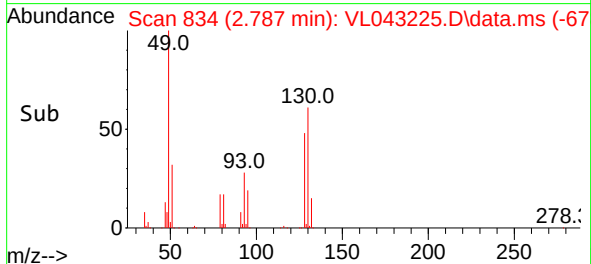
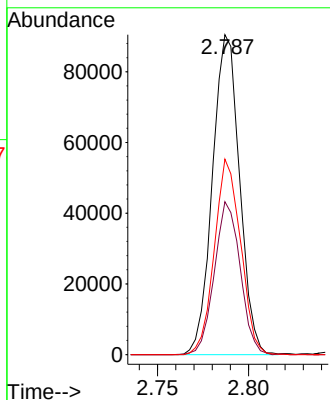
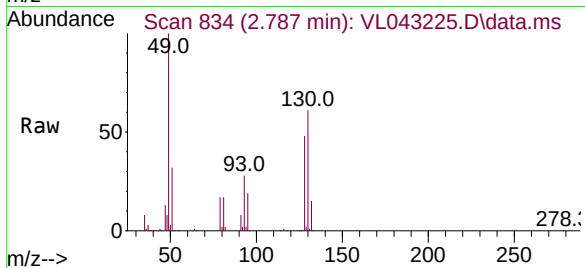
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 93700
Ion Ratio Lower Upper
49 100
128 45.6 23.0 69.0
130 59.1 29.9 89.7

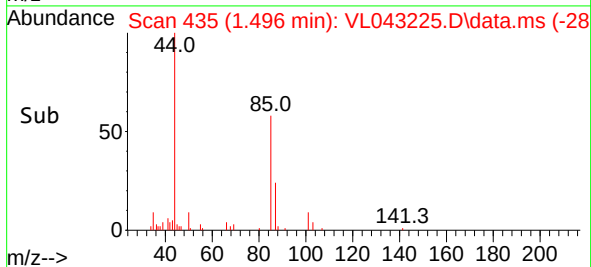
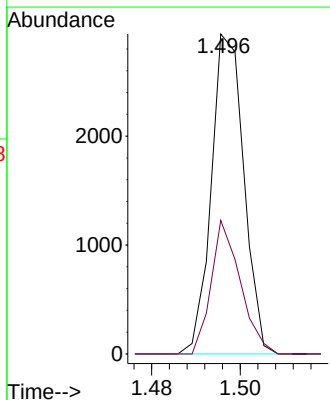
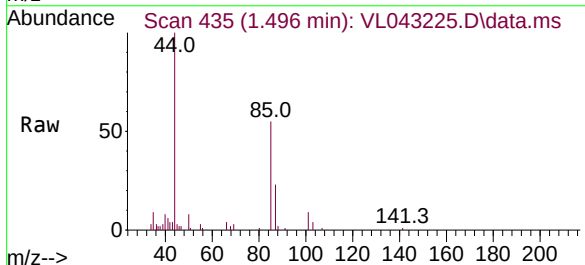
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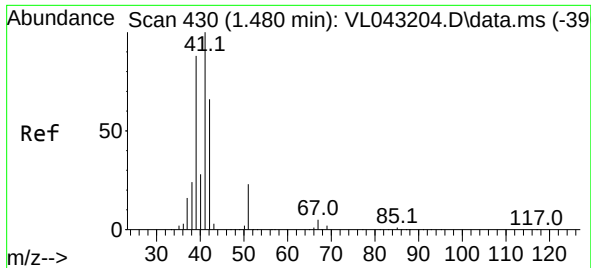
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.113 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Tgt Ion: 85 Resp: 1498
Ion Ratio Lower Upper
85 100
87 41.7 25.4 38.2#





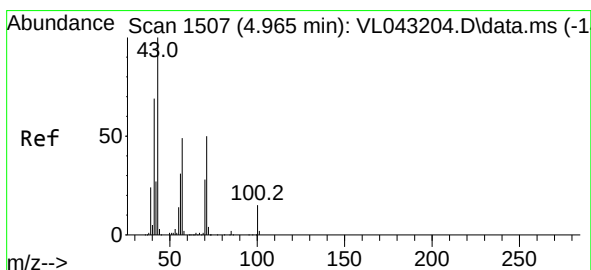
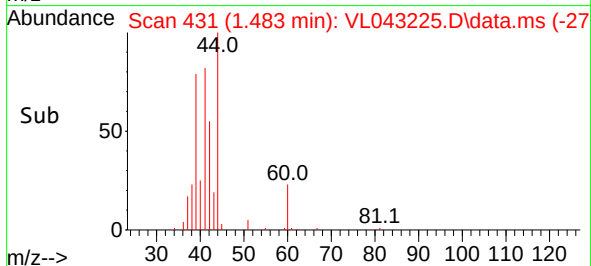
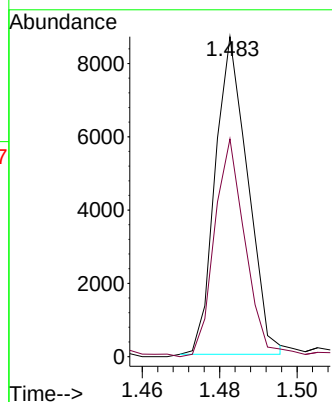
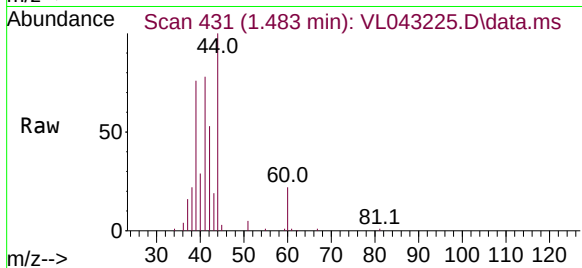
#9
 Propene
 Concen: 0.915 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.003 min
 Lab File: VL043225.D
 Acq: 18 Nov 2025 22:05

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 41 Resp: 5049
 Ion Ratio Lower Upper
 41 100
 42 69.8 3.7 5.5

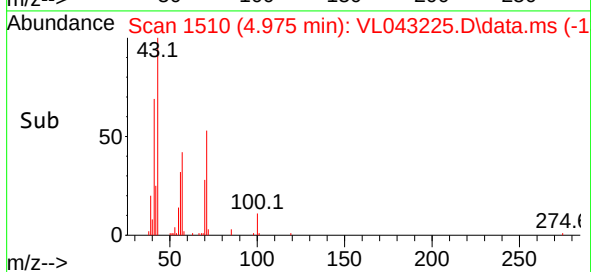
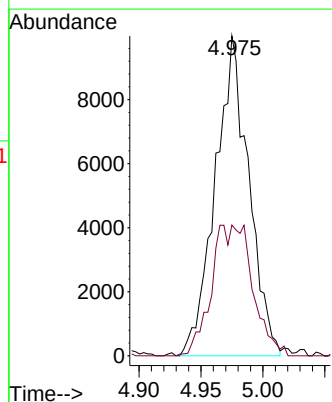
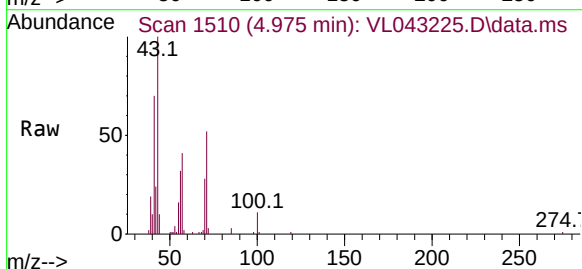
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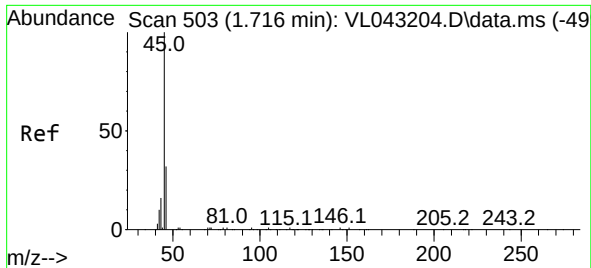
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 1.143 ppbv
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.009 min
 Lab File: VL043225.D
 Acq: 18 Nov 2025 22:05

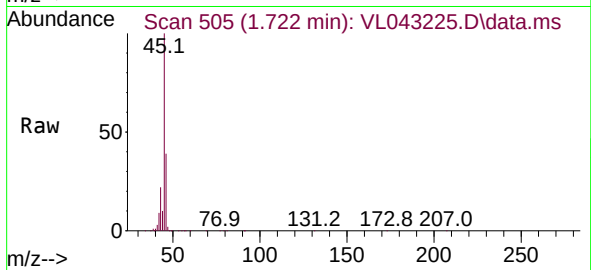
Tgt Ion: 43 Resp: 18772
 Ion Ratio Lower Upper
 43 100
 57 50.5 39.7 59.5





#13
Ethanol
Concen: 16.025 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

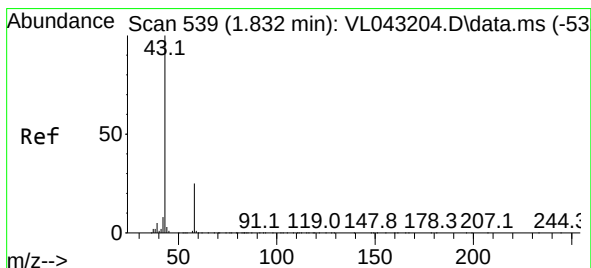
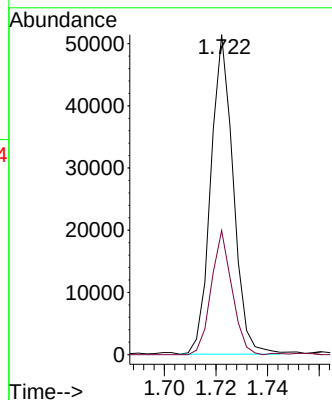
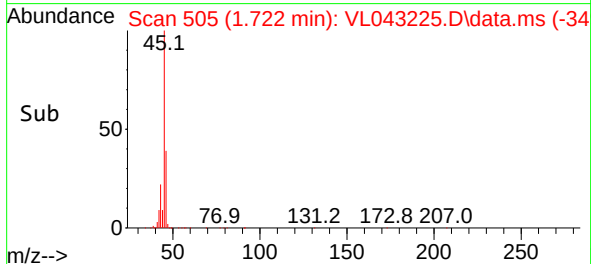
Instrument :
MSVOA_L
ClientSampleId :
SV1



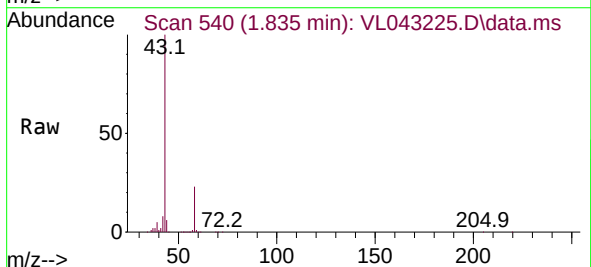
Tgt Ion: 45 Resp: 3110
Ion Ratio Lower Upper
45 100
46 36.3 15.0 59.8

Manual Integrations
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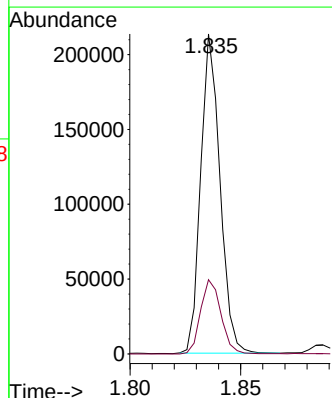
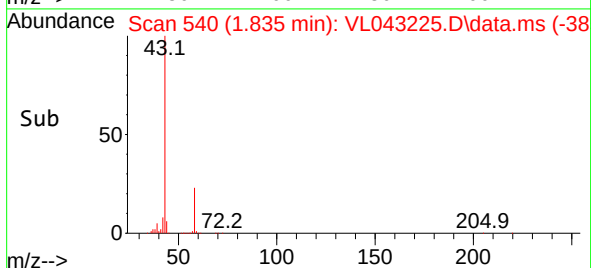
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

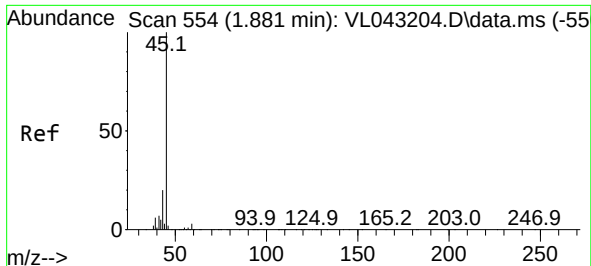


#15
Acetone
Concen: 9.933 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05



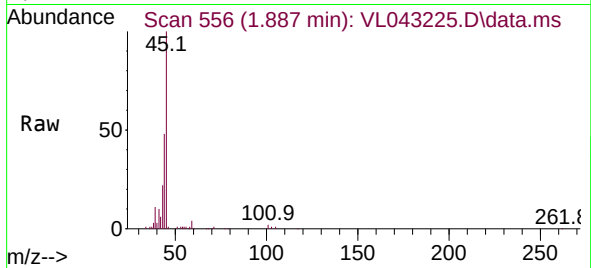
Tgt Ion: 43 Resp: 129322
Ion Ratio Lower Upper
43 100
58 24.7 20.7 31.1





#19
Isopropyl Alcohol
Concen: 2.320 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

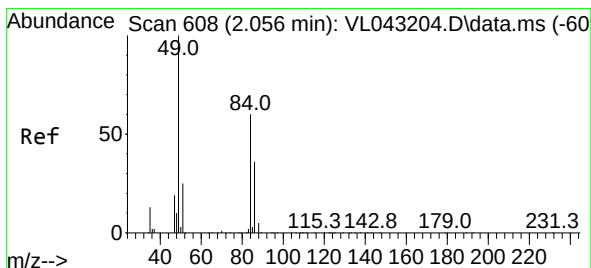
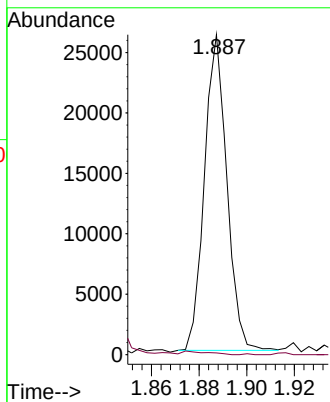
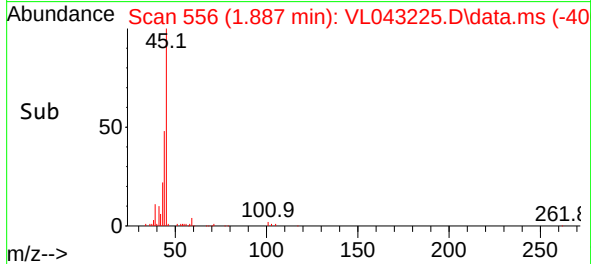
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 45 Resp: 17070
Ion Ratio Lower Upper
45 100
58 185.8 31.3 46.9

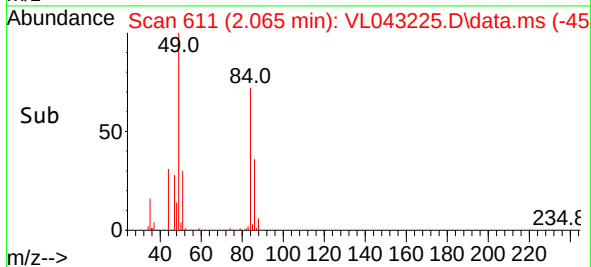
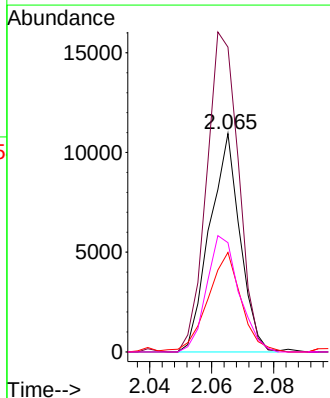
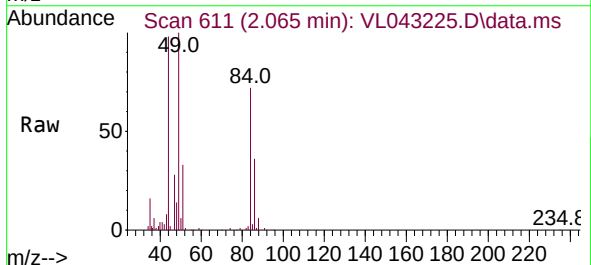
Manual Integrations
APPROVED

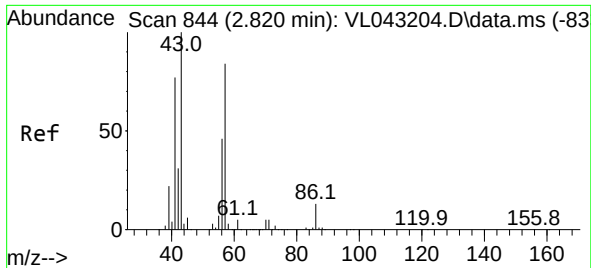
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 1.252 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.009 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

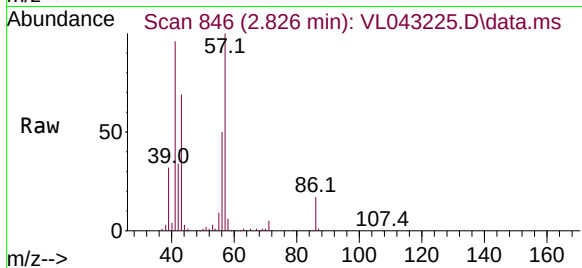
Tgt Ion: 84 Resp: 7438
Ion Ratio Lower Upper
84 100
49 139.6 132.9 199.3
51 44.7 34.8 52.2
86 50.0 48.2 72.2





#26
Hexane
Concen: 6.523 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

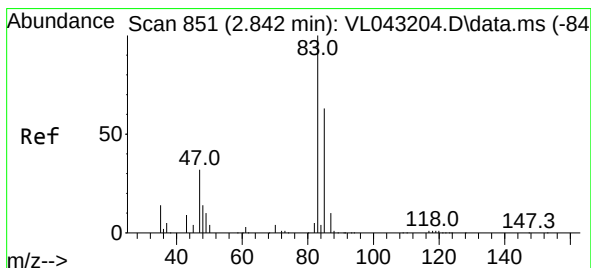
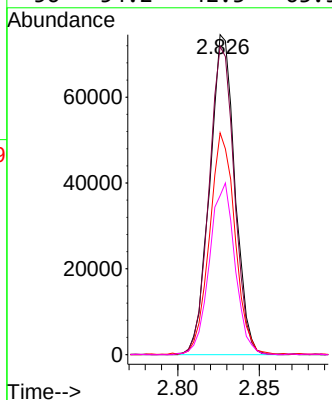
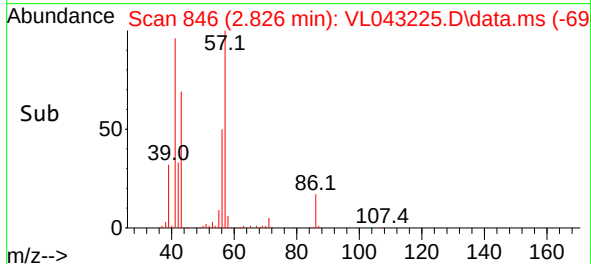
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 80300
Ion Ratio Lower Upper
57 100
41 97.2 74.6 111.8
43 70.7 179.0 268.4
56 54.2 42.3 63.5

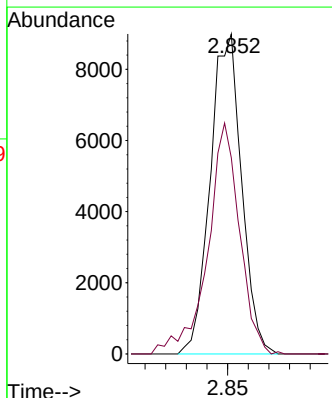
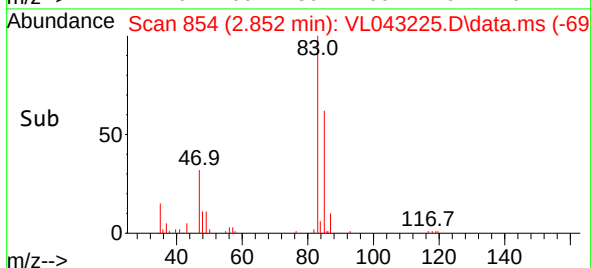
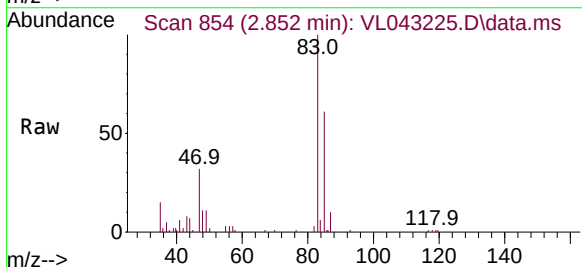
Manual Integrations
APPROVED

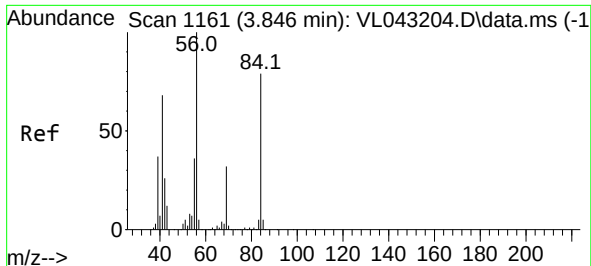
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#29
Chloroform
Concen: 0.542 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.009 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

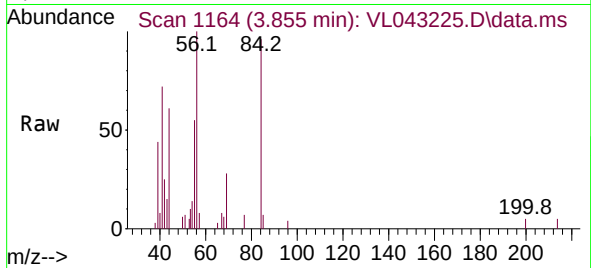
Tgt Ion: 83 Resp: 9485
Ion Ratio Lower Upper
83 100
85 60.6 50.5 75.7





#30
Cyclohexane
Concen: 0.307 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.010 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

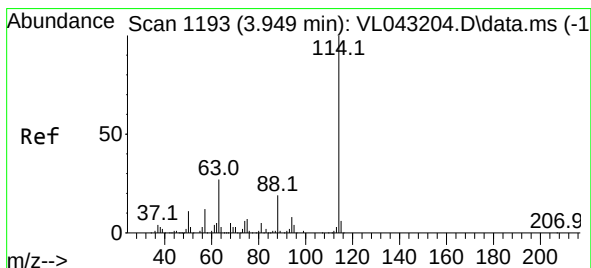
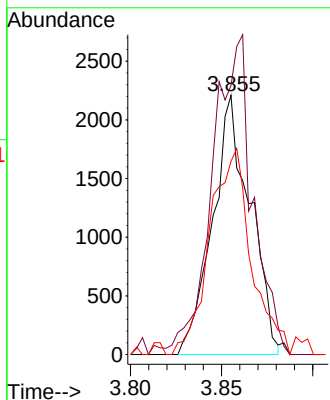
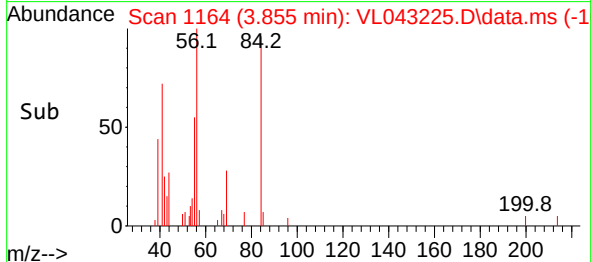
Instrument :
MSVOA_L
ClientSampleId :
SV1



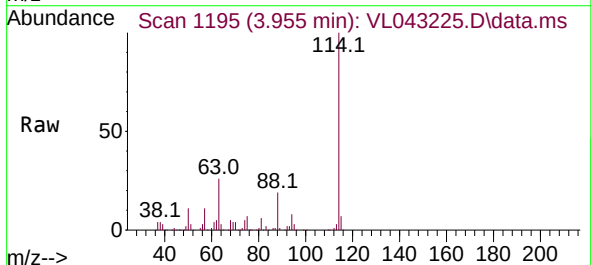
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Ion Ratio Lower Upper
84 100
56 134.7 104.7 157.1
41 91.3 69.0 103.6

Manual Integrations
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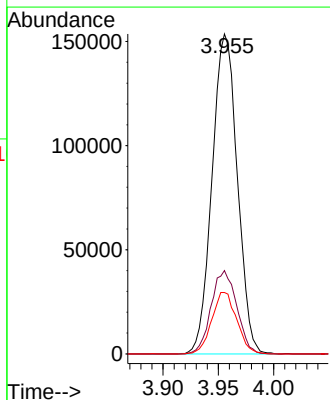
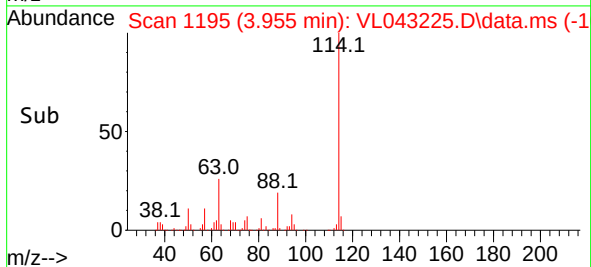
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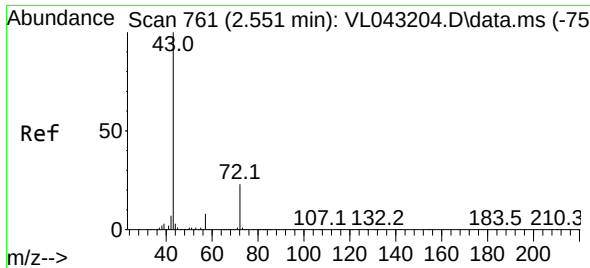


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05



Tgt Ion:114 Resp: 243965
Ion Ratio Lower Upper
114 100
63 26.4 21.0 31.6
88 19.0 14.9 22.3





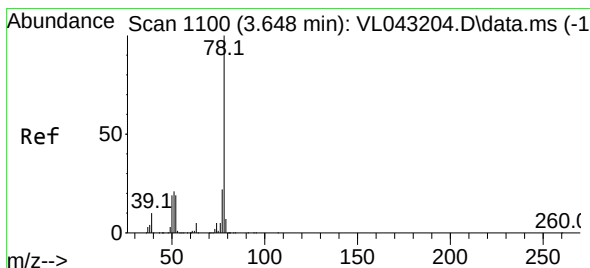
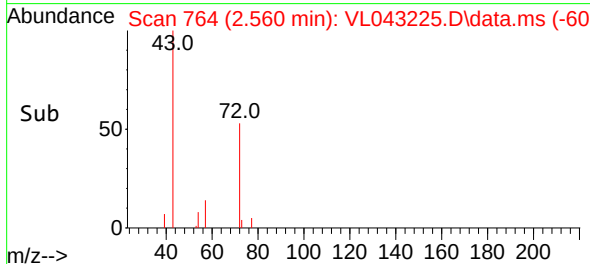
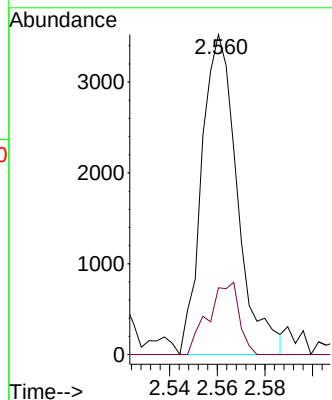
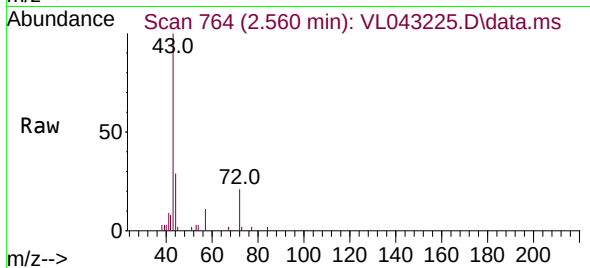
#34
2-Butanone
Concen: 0.213 ppbv
RT: 2.560 min Scan# 761
Delta R.T. 0.009 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 3662
Ion Ratio Lower Upper
43 100
72 19.4 18.1 27.1

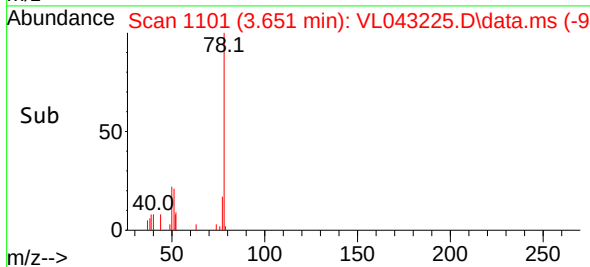
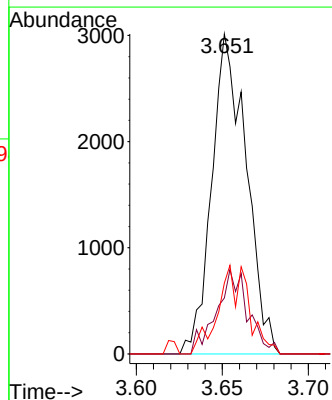
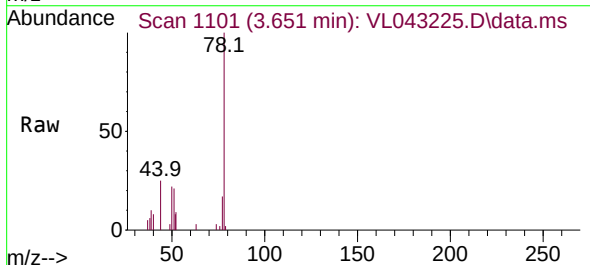
Manual Integrations
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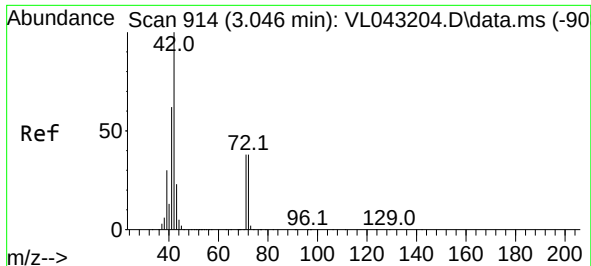
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#36
Benzene
Concen: 0.180 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

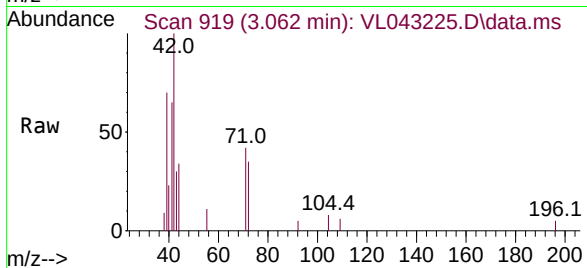
Tgt Ion: 78 Resp: 4197
Ion Ratio Lower Upper
78 100
77 17.5 17.5 26.3#
50 22.2 15.5 23.3





#41
Tetrahydrofuran
Concen: 0.201 ppbv m
RT: 3.062 min Scan# 914
Delta R.T. 0.016 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

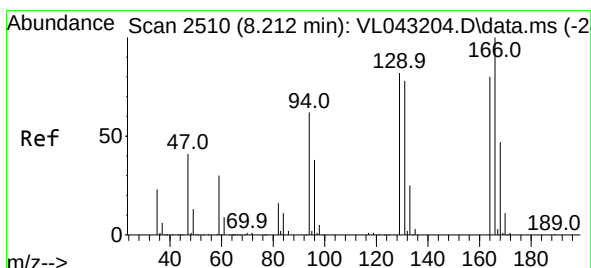
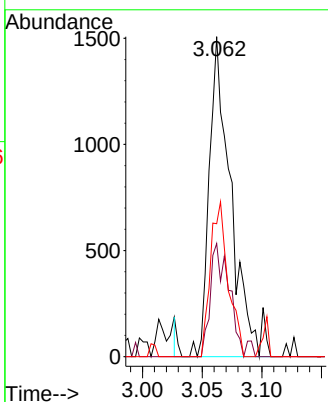
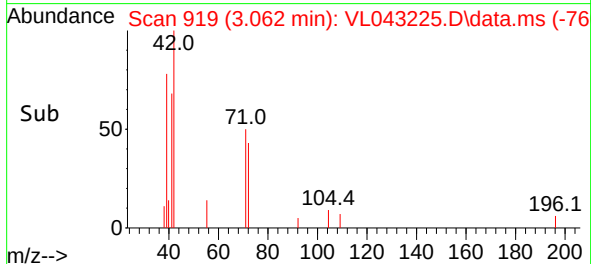
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 42 Resp: 1915
Ion Ratio Lower Upper
42 100
72 0.0 30.6 46.0
71 0.0 30.5 45.7

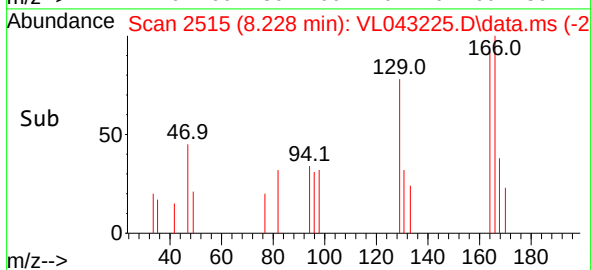
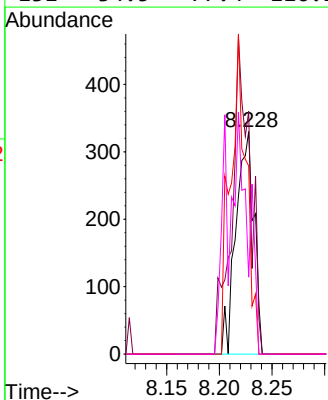
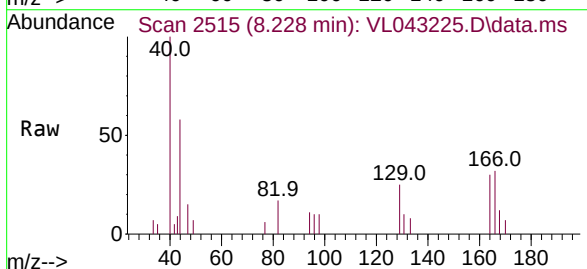
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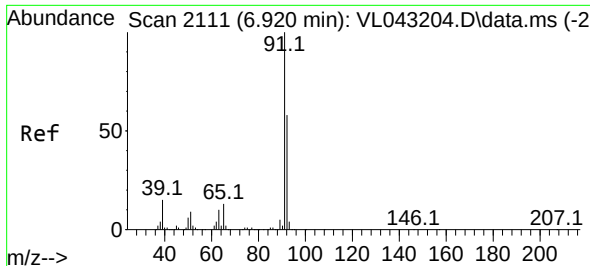
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#52
Tetrachloroethene
Concen: 0.045 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. 0.016 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Tgt Ion:164 Resp: 389
Ion Ratio Lower Upper
164 100
166 109.1 99.4 149.2
129 84.5 81.8 122.8
131 34.5 77.4 116.2#





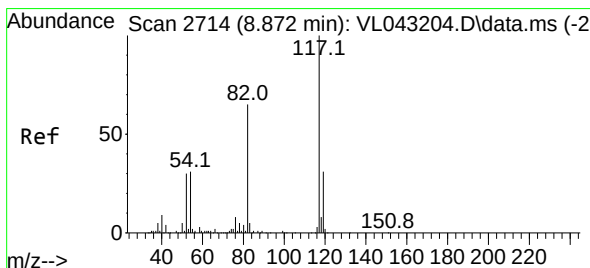
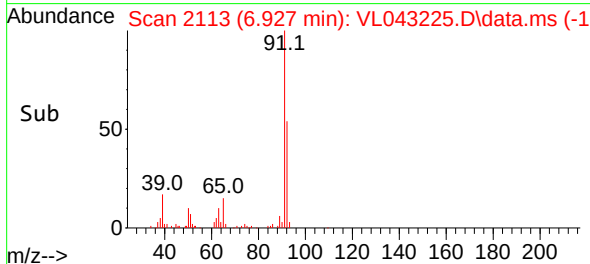
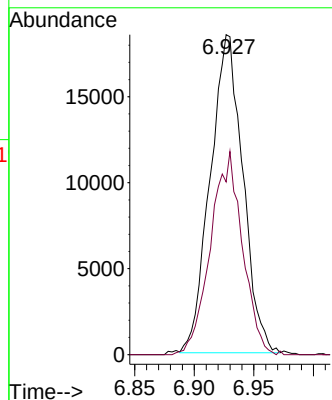
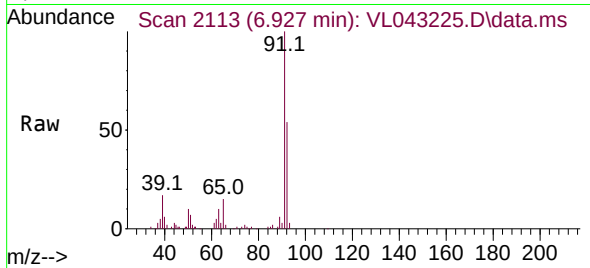
#53
Toluene
Concen: 1.274 ppbv
RT: 6.927 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 35245
Ion Ratio Lower Upper
91 100
92 62.3 47.4 71.0

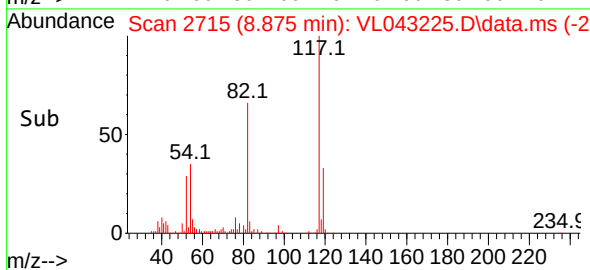
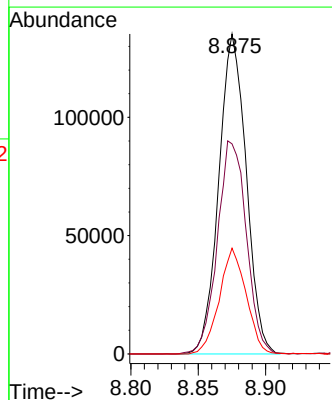
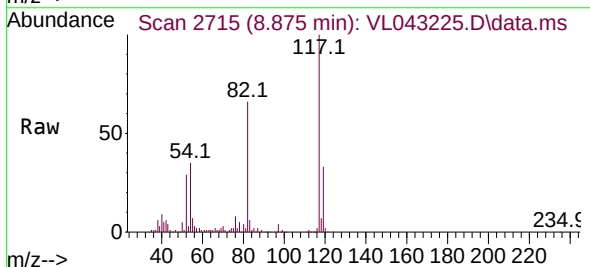
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APPROVED

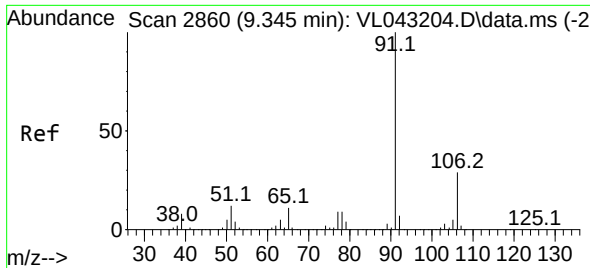
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Tgt Ion:117 Resp: 191464
Ion Ratio Lower Upper
117 100
82 70.3 56.1 84.1
119 32.4 25.0 37.6





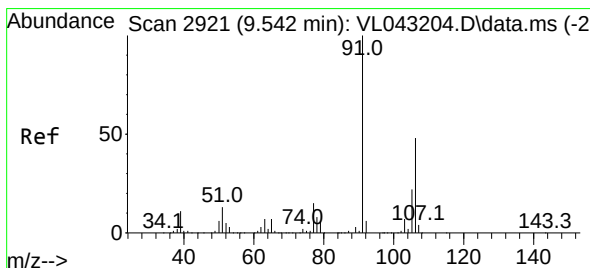
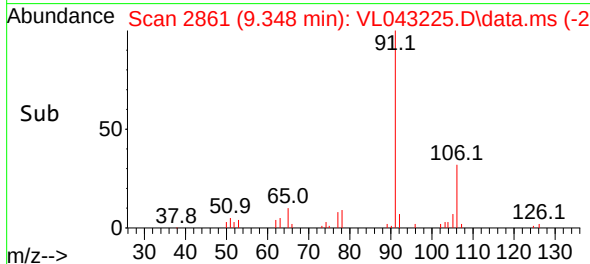
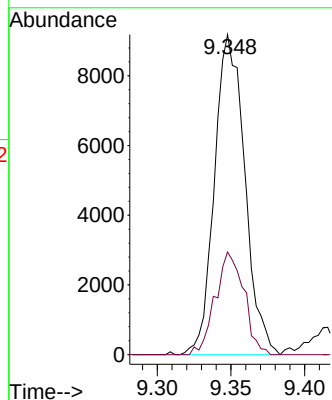
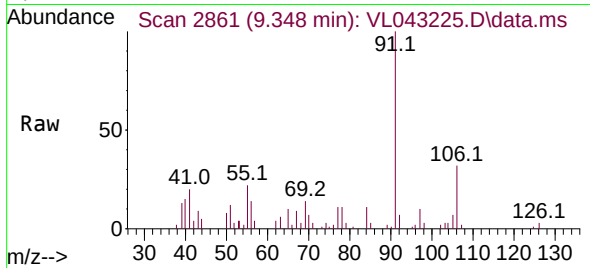
#58
Ethyl Benzene
Concen: 0.356 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 13112
Ion Ratio Lower Upper
91 100
106 32.1 22.8 34.2

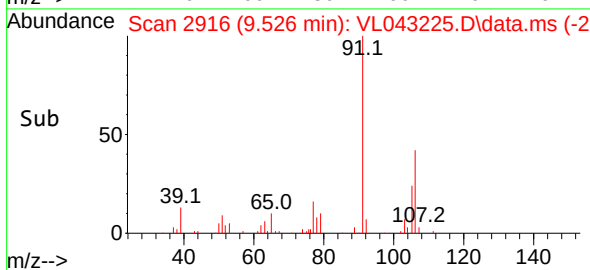
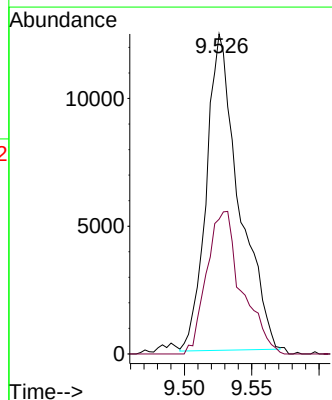
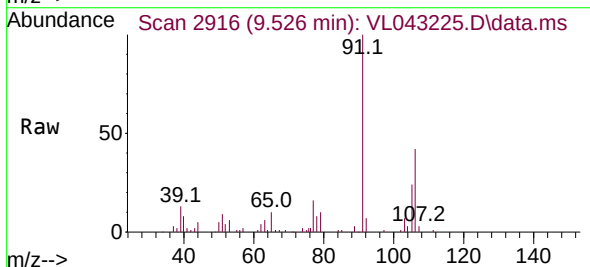
Manual Integrations
APPROVED

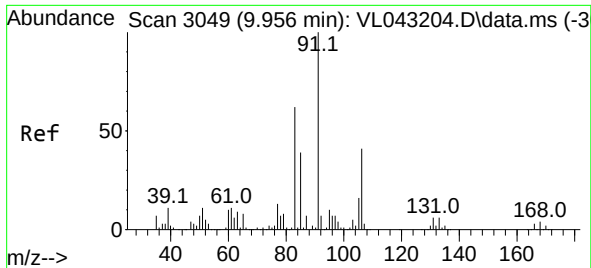
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#59
m/p-Xylene
Concen: 0.710 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

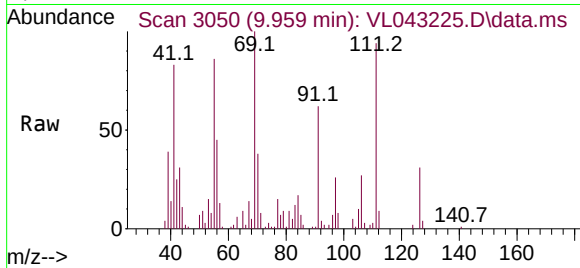
Tgt Ion: 91 Resp: 20983
Ion Ratio Lower Upper
91 100
106 48.0 36.1 54.1





#60
o-Xylene
Concen: 0.307 ppbv
RT: 9.959 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

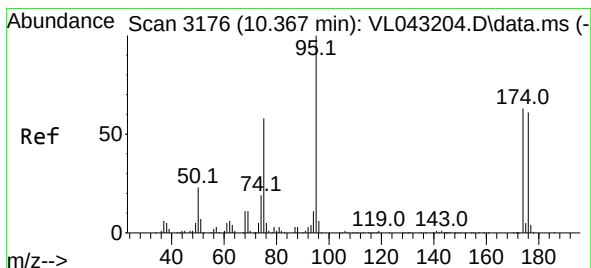
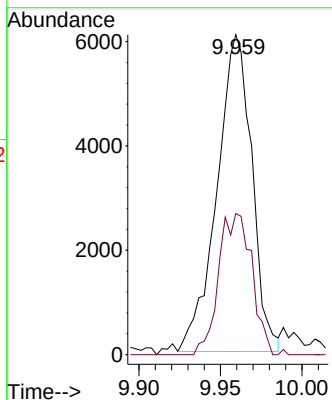
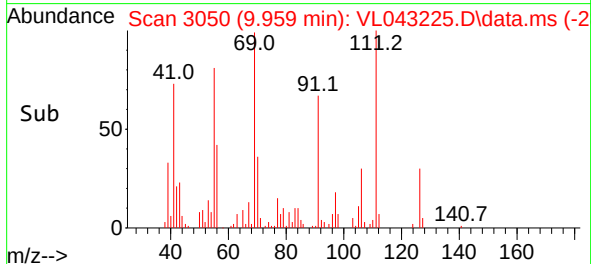
Instrument :
MSVOA_L
ClientSampleId :
SV1



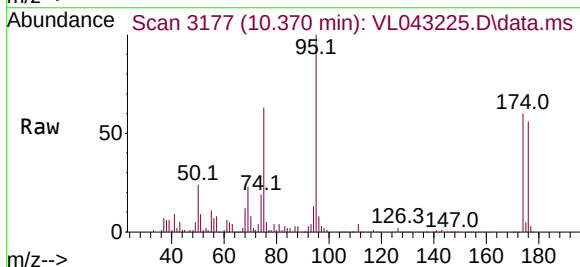
Tgt Ion: 91 Resp: 9061
Ion Ratio Lower Upper
91 100
106 42.4 20.9 62.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.277 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05



Tgt Ion: 95 Resp: 144231
Ion Ratio Lower Upper
95 100
174 58.9 50.2 75.2
175 4.5 4.1 6.1

