

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043270.D
 Acq On : 20 Nov 2025 18:02
 Operator : SY/MD
 Sample : Q3698-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025

Quant Time: Nov 21 00:41:41 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

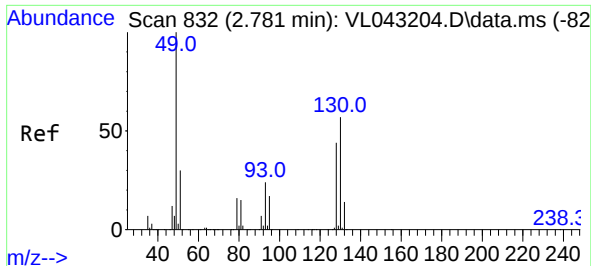
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.781	49	104226	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	262002	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	222185	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	170603	10.475	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	7562	0.514	ppbv	97
3) Chlorodifluoromethane	1.473	51	4256m	0.294	ppbv	
4) Chloromethane	1.531	50	2453	0.446	ppbv #	83
9) Propene	1.486	41	394823	64.313	ppbv #	6
10) Heptane	4.968	43	7444m	0.407	ppbv	
11) Trichlorofluoromethane	1.874	101	4245	0.298	ppbv	98
13) Ethanol	1.719	45	43147	19.987	ppbv	98
15) Acetone	1.832	43	2648167	182.878	ppbv #	68
19) Isopropyl Alcohol	1.881	45	120618	14.741	ppbv #	36
20) Methylene Chloride	2.059	84	5103	0.446	ppbv	95
26) Hexane	2.819	57	18674	1.364	ppbv #	61
30) Cyclohexane	3.855	84	2659m	0.232	ppbv	
34) 2-Butanone	2.554	43	16273	0.880	ppbv	98
35) Carbon Tetrachloride	3.748	117	1523m	0.077	ppbv	
36) Benzene	3.645	78	17039	0.679	ppbv	97
44) 2,2,4-Trimethylpentane	4.629	57	11283m	0.262	ppbv	
52) Tetrachloroethene	8.205	164	679m	0.073	ppbv	
53) Toluene	6.920	91	78010	2.626	ppbv	98
58) Ethyl Benzene	9.348	91	477084	11.156	ppbv	99
59) m/p-Xylene	9.522	91	1740919	50.776	ppbv	100
60) o-Xylene	9.953	91	543908	15.880	ppbv	99
72) 4-Ethyltoluene	11.115	105	5206	0.125	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.196	105	4148m	0.119	ppbv	
74) 1,2,4-Trimethylbenzene	11.526	105	15663	0.410	ppbv #	47

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

Manual Integrations

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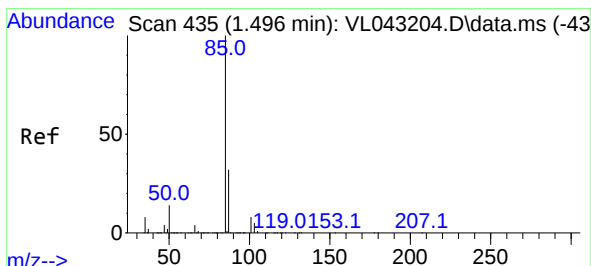
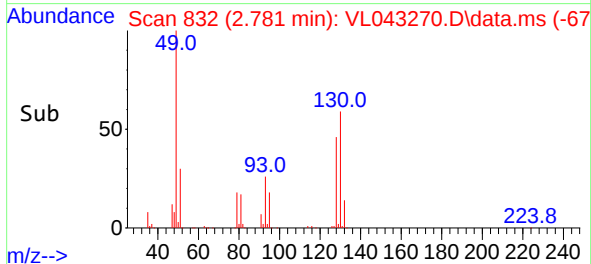
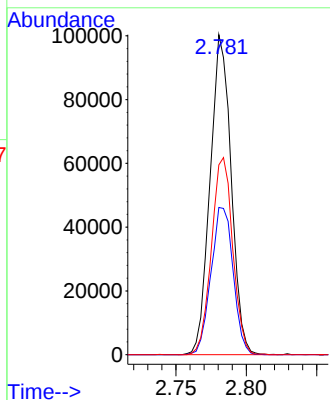
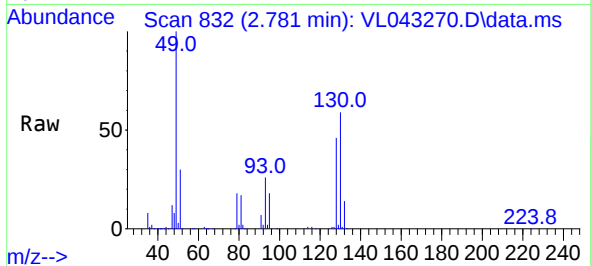
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 832
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 104220
Ion Ratio Lower Upper
49 100
128 48.5 23.0 69.0
130 62.4 29.9 89.7

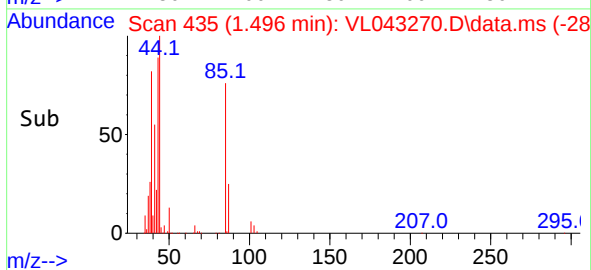
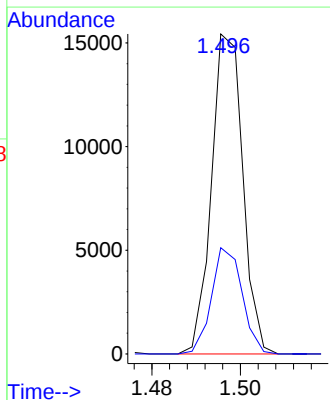
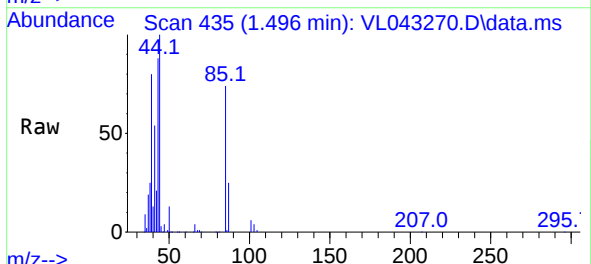
Manual Integrations
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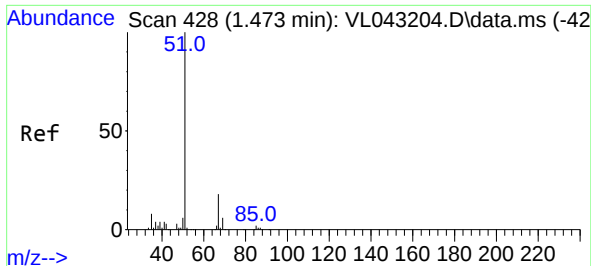
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#2
Dichlorodifluoromethane
Concen: 0.514 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

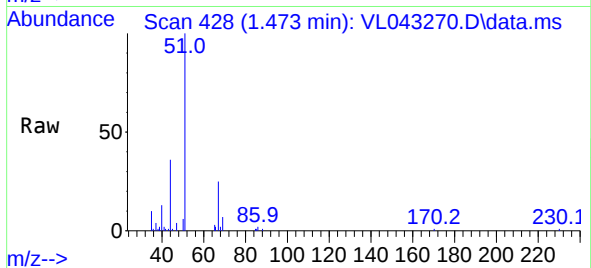
Tgt Ion: 85 Resp: 7562
Ion Ratio Lower Upper
85 100
87 33.2 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.294 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

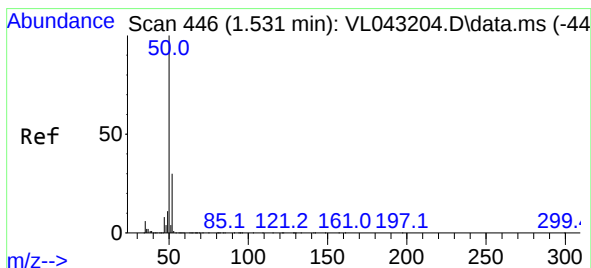
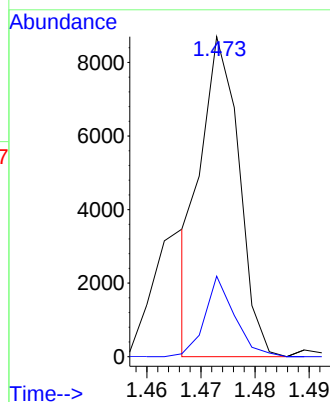
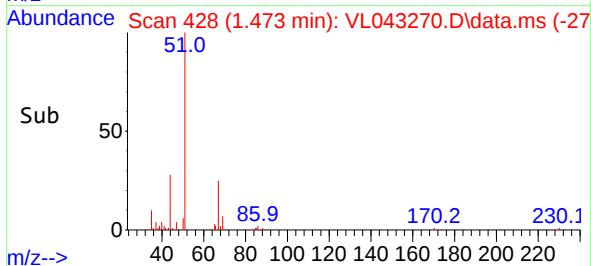
Instrument :
MSVOA_L
ClientSampleId :
IA1



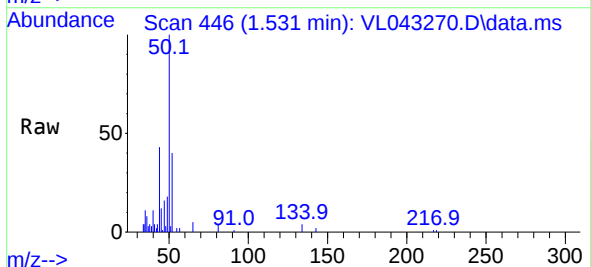
Tgt Ion: 51 Resp: 4250
Ion Ratio Lower Upper
51 100
67 4.7 14.9 22.3

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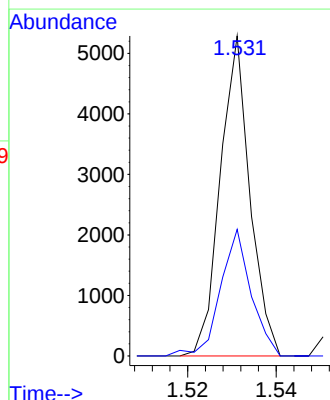
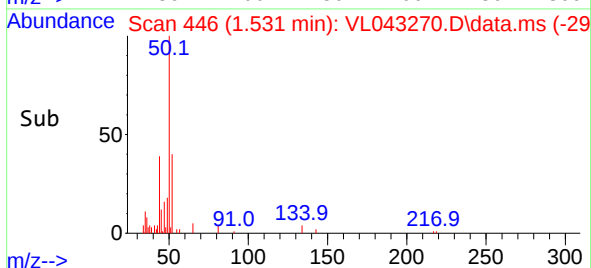
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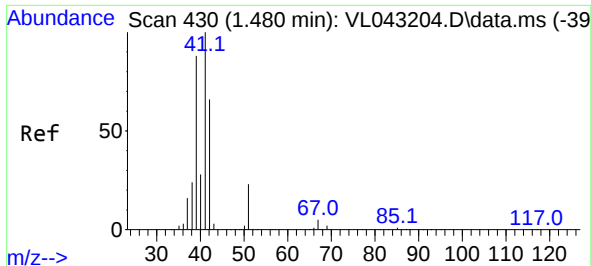


#4
Chloromethane
Concen: 0.446 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02



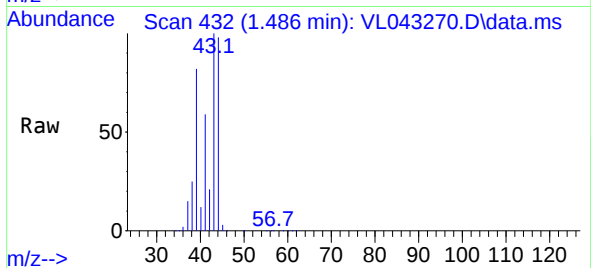
Tgt Ion: 50 Resp: 2453
Ion Ratio Lower Upper
50 100
52 39.5 24.1 36.1





#9
Propene
Concen: 64.313 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

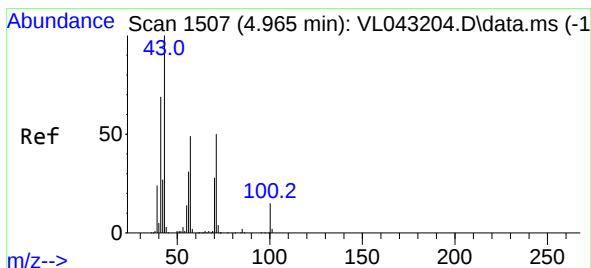
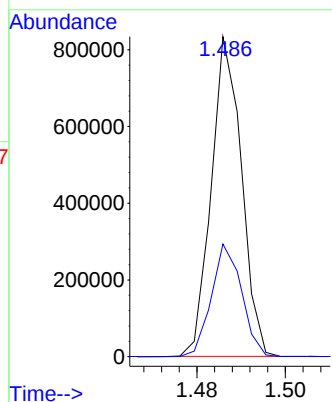
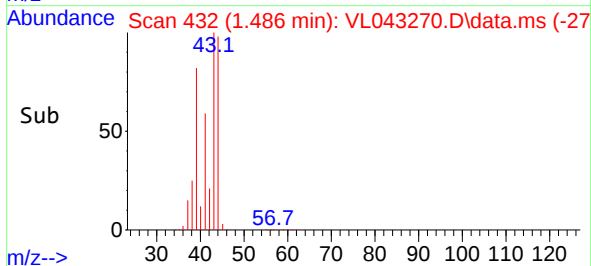
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 41 Resp: 39482
Ion Ratio Lower Upper
41 100
42 35.5 3.7 5.5

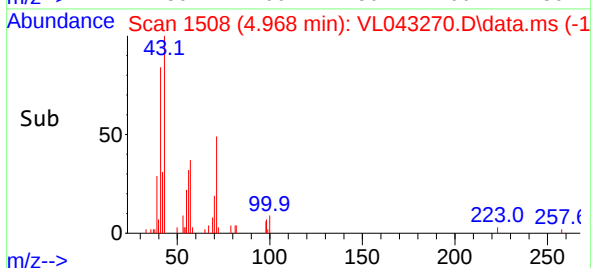
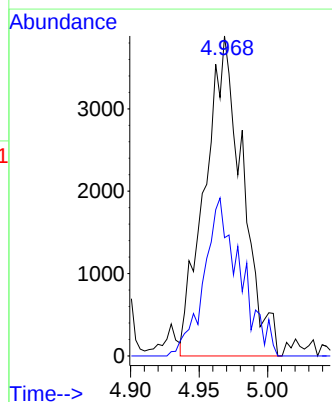
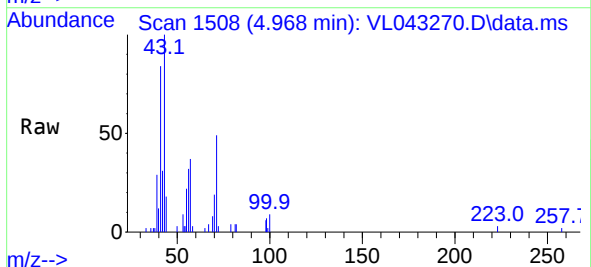
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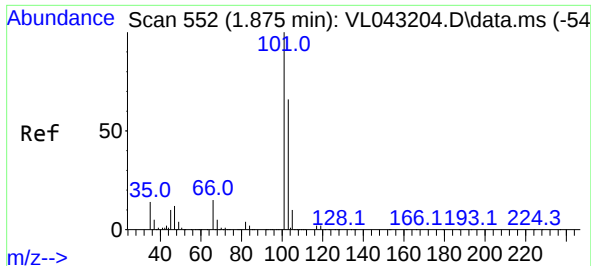
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#10
Heptane
Concen: 0.407 ppbv m
RT: 4.968 min Scan# 1508
Delta R.T. 0.003 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

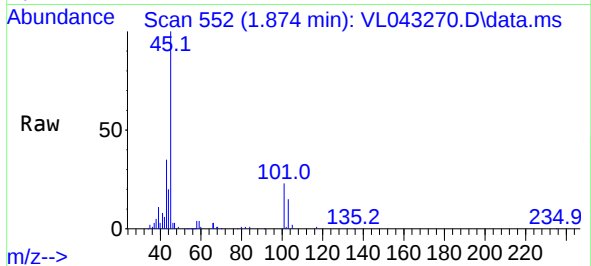
Tgt Ion: 43 Resp: 7444
Ion Ratio Lower Upper
43 100
57 47.3 39.7 59.5





#11
Trichlorofluoromethane
Concen: 0.298 ppbv
RT: 1.874 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

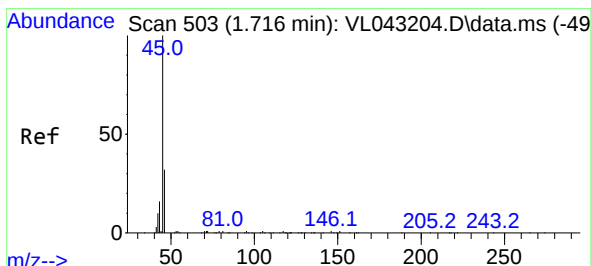
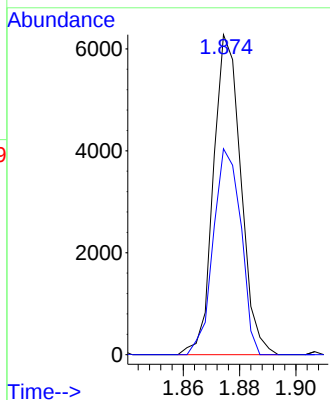
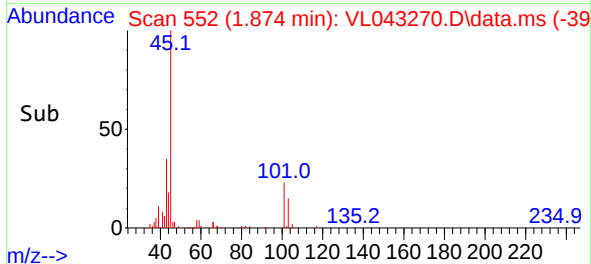
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:101 Resp: 4245
Ion Ratio Lower Upper
101 100
103 64.4 52.6 79.0

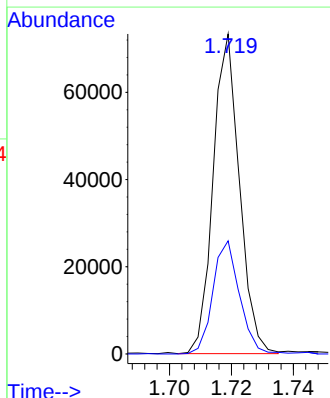
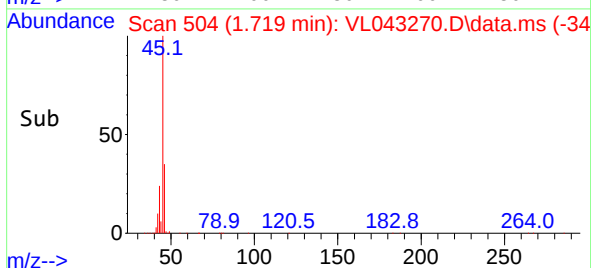
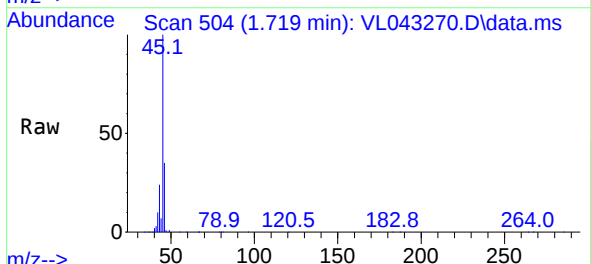
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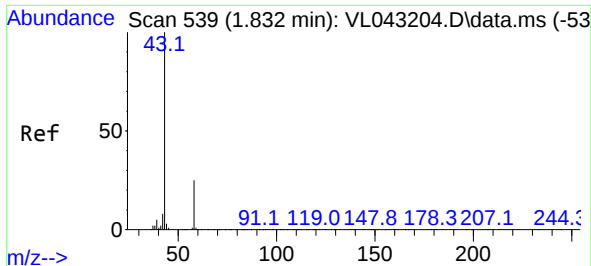
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#13
Ethanol
Concen: 19.987 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

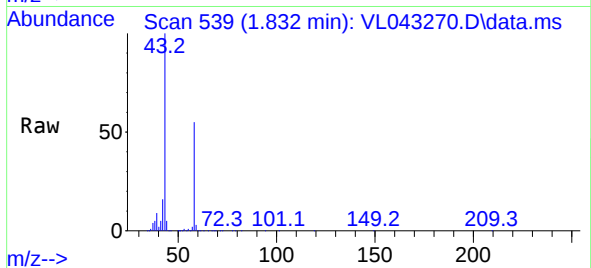
Tgt Ion: 45 Resp: 43147
Ion Ratio Lower Upper
45 100
46 36.3 15.0 59.8





#15
Acetone
Concen: 182.878 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

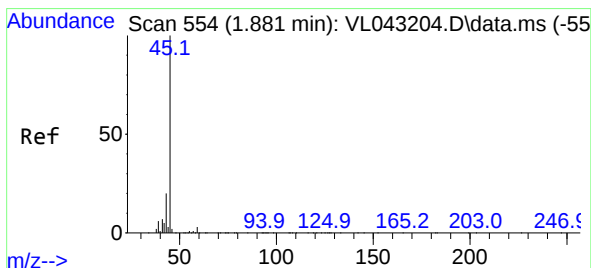
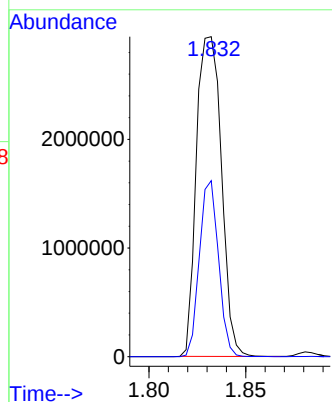
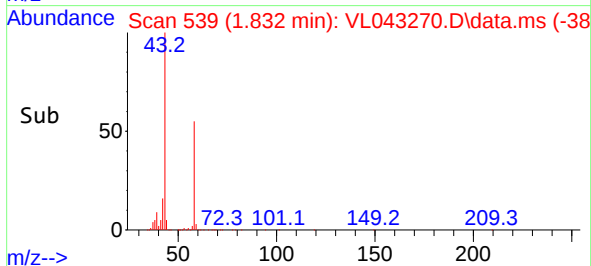
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 264816
Ion Ratio Lower Upper
43 100
58 42.2 20.7 31.1

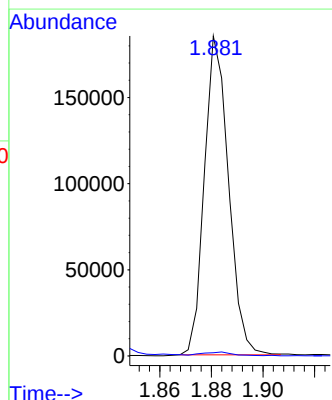
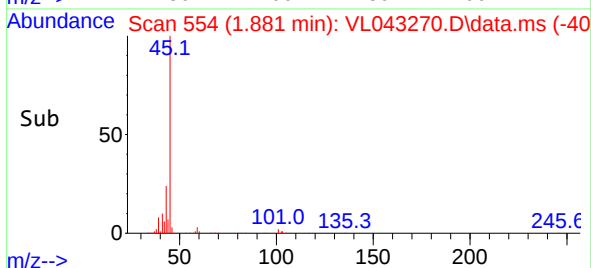
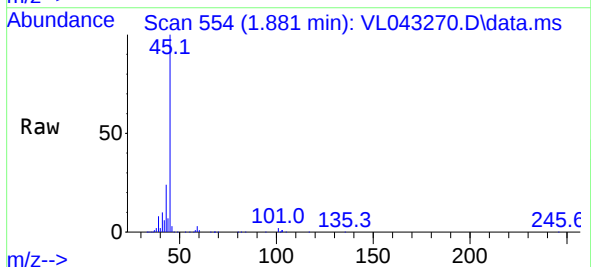
Manual Integrations
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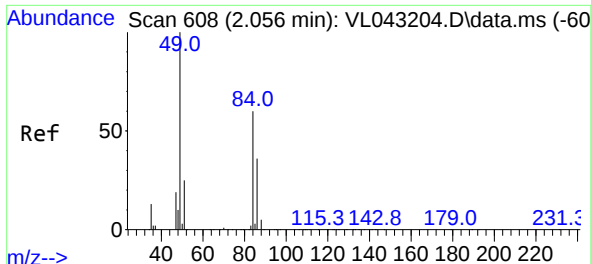
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#19
Isopropyl Alcohol
Concen: 14.741 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

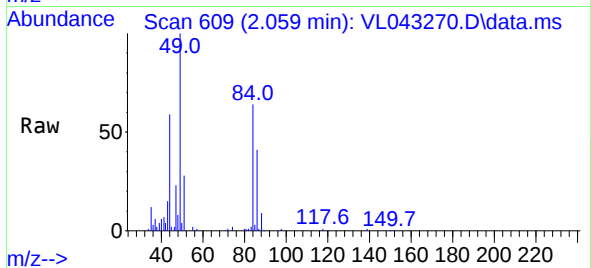
Tgt Ion: 45 Resp: 120618
Ion Ratio Lower Upper
45 100
58 0.0 31.3 46.9





#20
Methylene Chloride
Concen: 0.446 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

Instrument :
MSVOA_L
ClientSampleId :
IA1

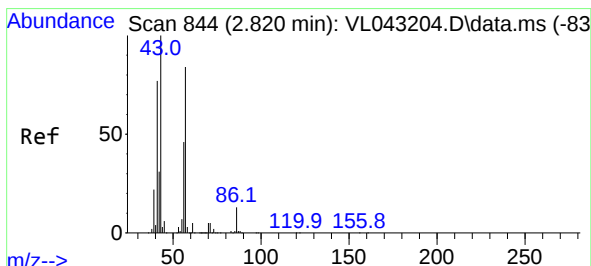
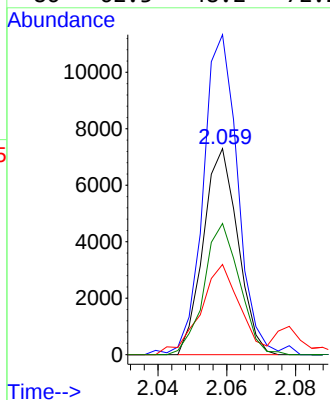
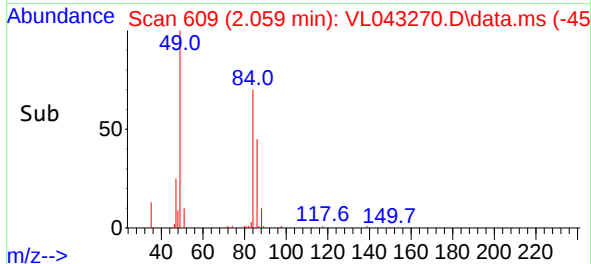


Tgt Ion: 84 Resp: 510

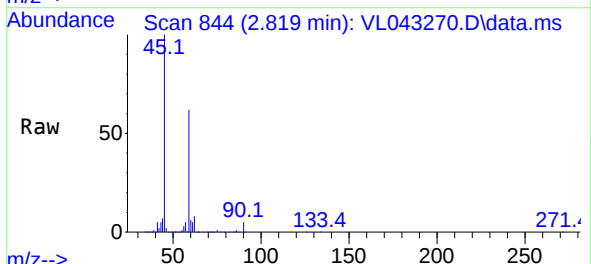
Ion	Ratio	Lower	Upper
84	100		
49	159.1	132.9	199.3
51	40.3	34.8	52.2
86	62.3	48.2	72.2

Manual Integrations
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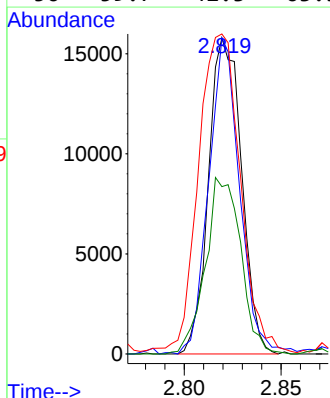
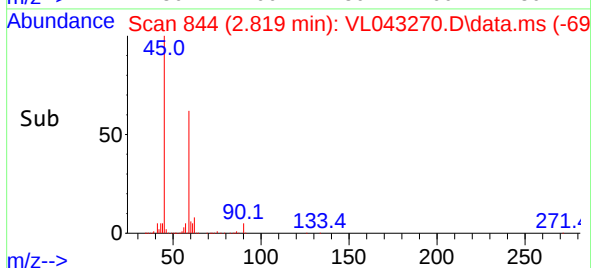


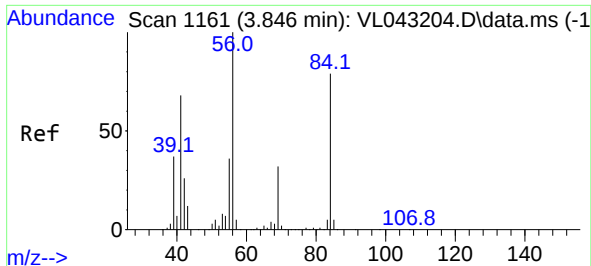
#26
Hexane
Concen: 1.364 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02



Tgt Ion: 57 Resp: 18674

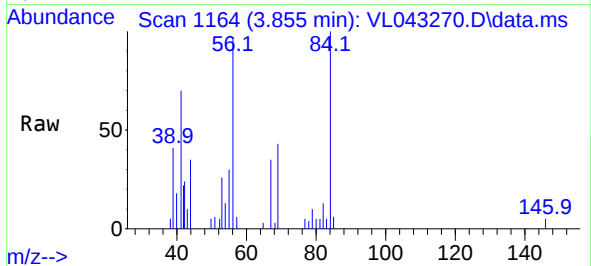
Ion	Ratio	Lower	Upper
57	100		
41	95.2	74.6	111.8
43	124.5	179.0	268.4#
56	59.7	42.3	63.5





#30
Cyclohexane
Concen: 0.232 ppbv m
RT: 3.855 min Scan# 1161
Delta R.T. 0.009 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

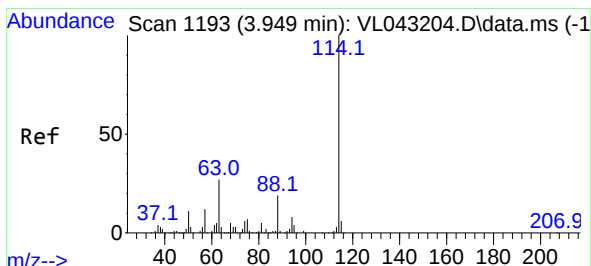
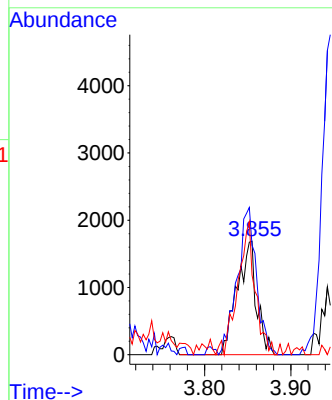
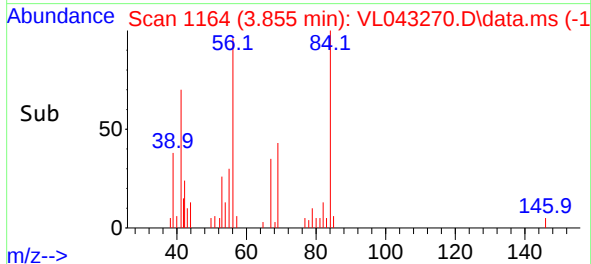
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 2659
Ion Ratio Lower Upper
84 100
56 129.8 104.7 157.1
41 110.2 69.0 103.6

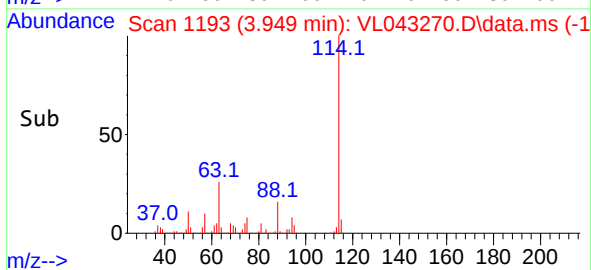
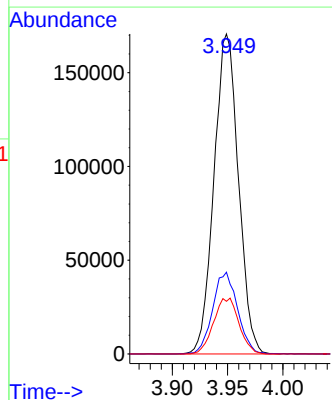
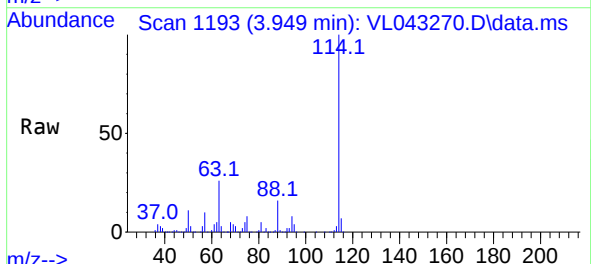
Manual Integrations
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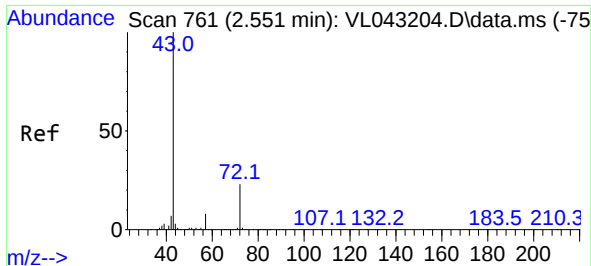
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

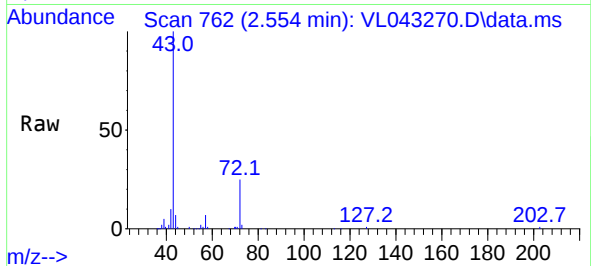
Tgt Ion:114 Resp: 262002
Ion Ratio Lower Upper
114 100
63 26.1 21.0 31.6
88 18.2 14.9 22.3





#34
2-Butanone
Concen: 0.880 ppbv
RT: 2.554 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

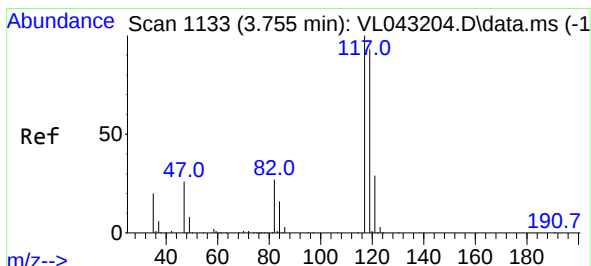
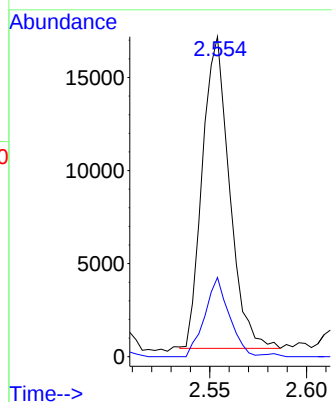
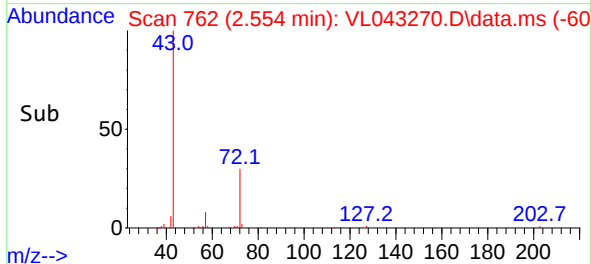
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 1627
Ion Ratio Lower Upper
43 100
72 23.5 18.1 27.1

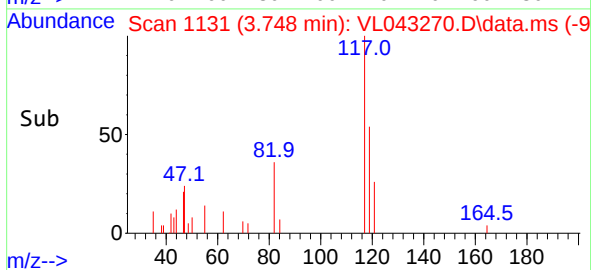
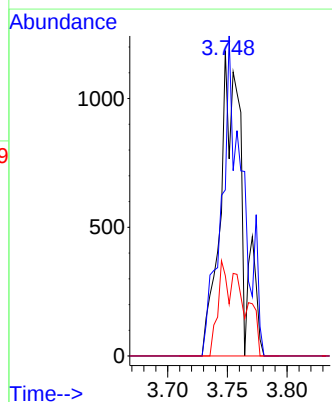
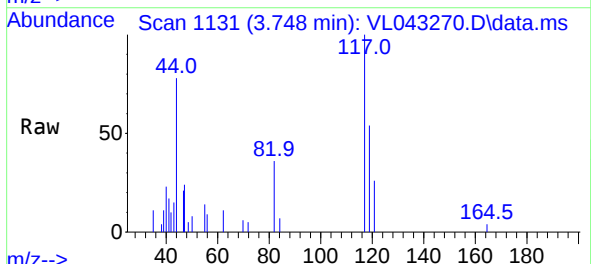
Manual Integrations
APPROVED

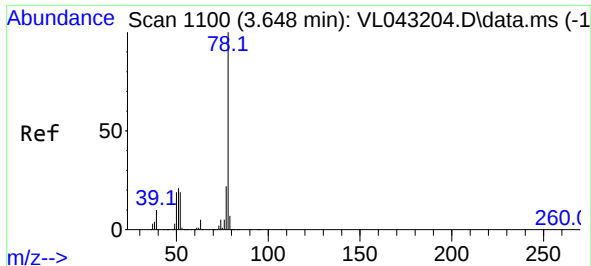
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 3.748 min Scan# 1131
Delta R.T. -0.007 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

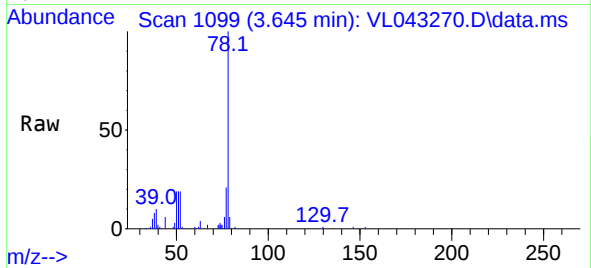
Tgt Ion:117 Resp: 1523
Ion Ratio Lower Upper
117 100
119 54.4 74.6 112.0#
121 26.3 23.2 34.8





#36
Benzene
Concen: 0.679 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.003 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

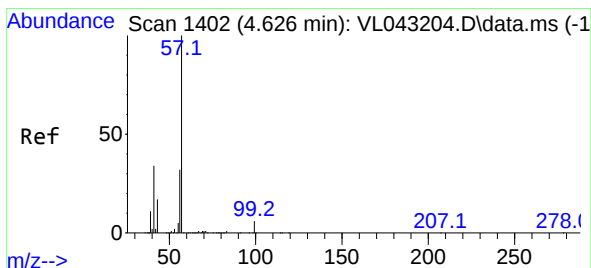
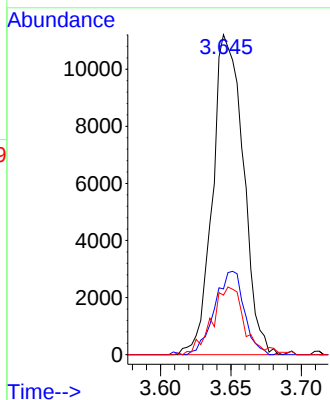
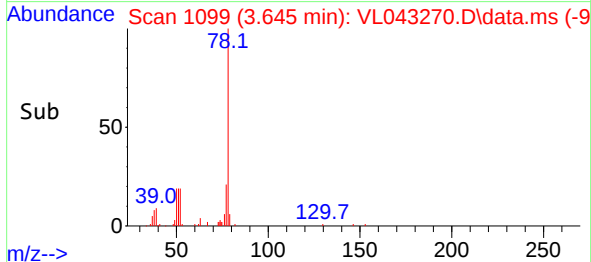
Instrument :
MSVOA_L
ClientSampleId :
IA1



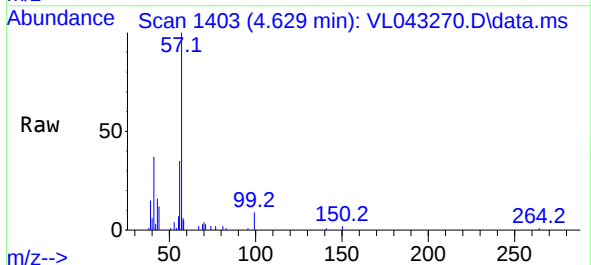
Tgt Ion: 78 Resp: 17039
Ion Ratio Lower Upper
78 100
77 20.1 17.5 26.3
50 18.0 15.5 23.3

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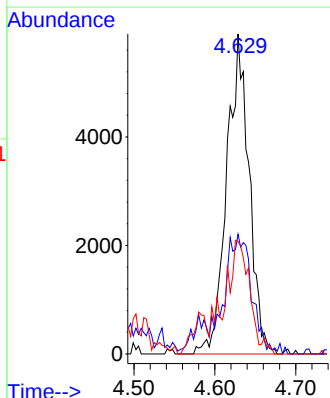
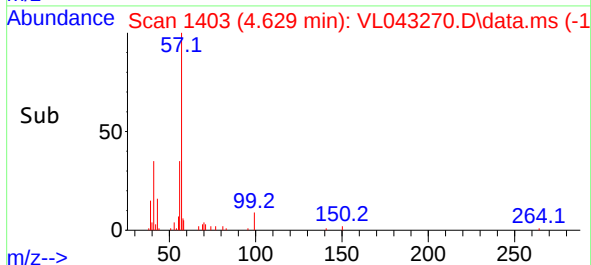
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

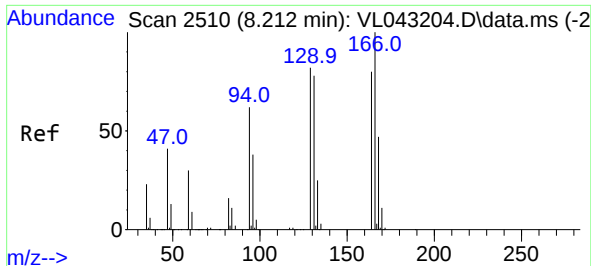


#44
2,2,4-Trimethylpentane
Concen: 0.262 ppbv m
RT: 4.629 min Scan# 1403
Delta R.T. 0.003 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02



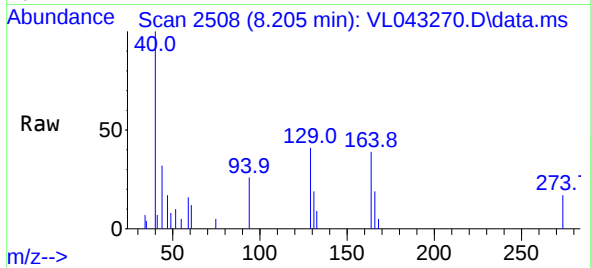
Tgt Ion: 57 Resp: 11283
Ion Ratio Lower Upper
57 100
41 53.4 28.0 42.0#
56 47.8 25.6 38.4#





#52
Tetrachloroethene
Concen: 0.073 ppbv m
RT: 8.205 min Scan# 2111
Delta R.T. -0.007 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

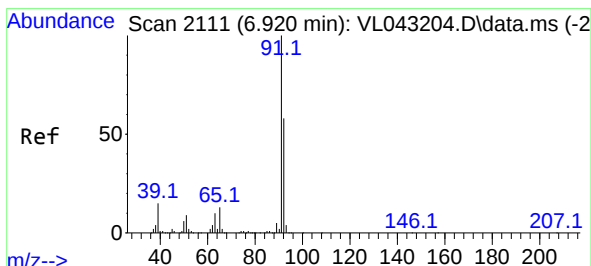
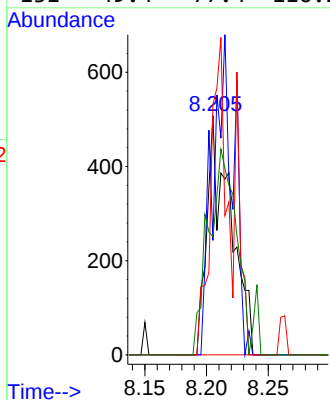
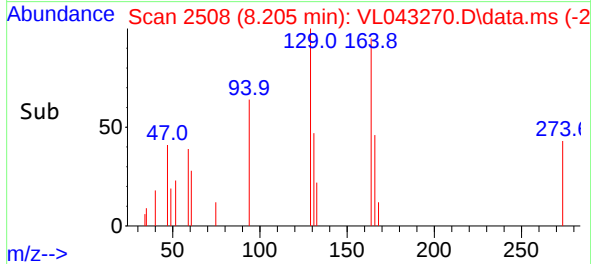
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 679
Ion Ratio Lower Upper
164 100
166 47.8 99.4 149.2
129 104.7 81.8 122.8
131 49.4 77.4 116.2#

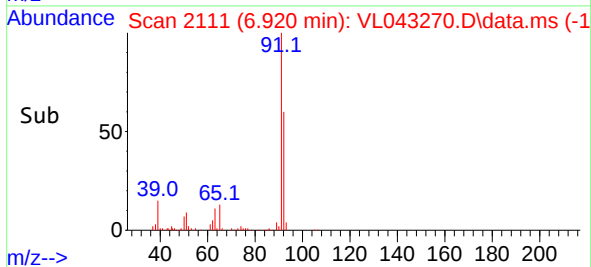
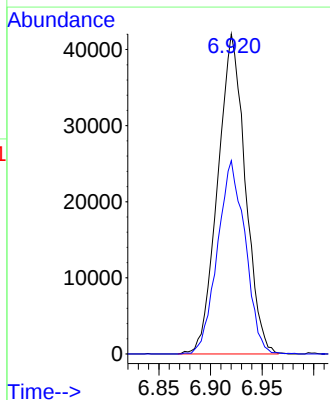
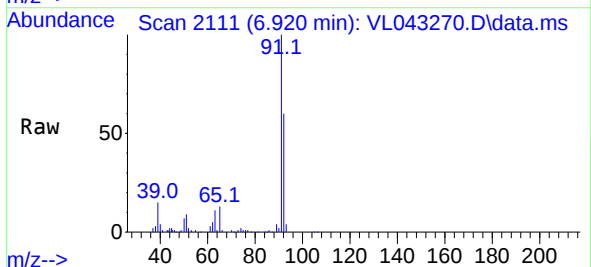
Manual Integrations
APPROVED

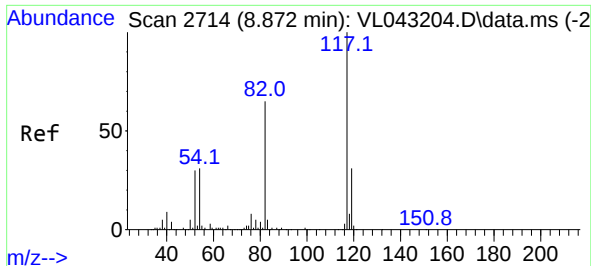
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#53
Toluene
Concen: 2.626 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

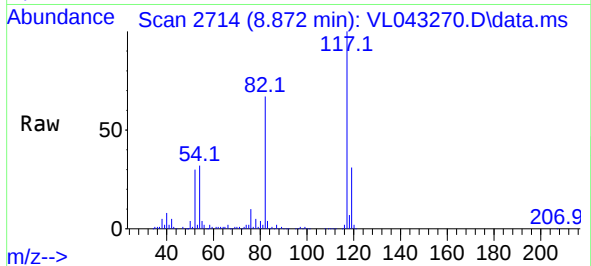
Tgt Ion: 91 Resp: 78010
Ion Ratio Lower Upper
91 100
92 60.9 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

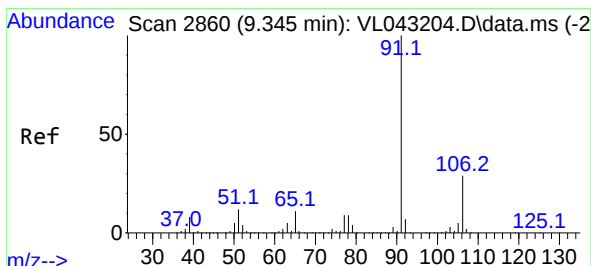
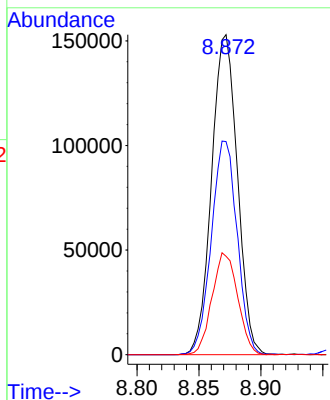
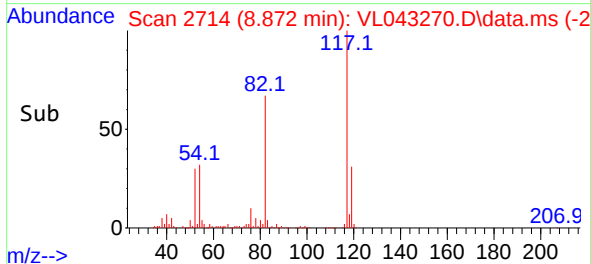
Instrument :
MSVOA_L
ClientSampleId :
IA1



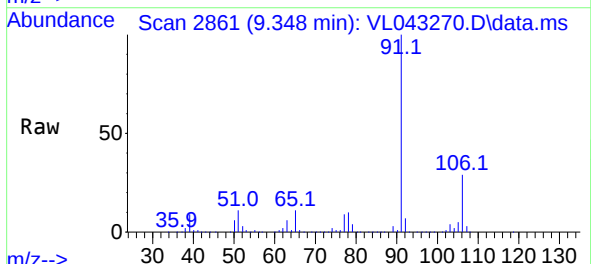
Tgt Ion: 117 Resp: 222185
Ion Ratio Lower Upper
117 100
82 66.9 56.1 84.1
119 31.7 25.0 37.6

Manual Integrations
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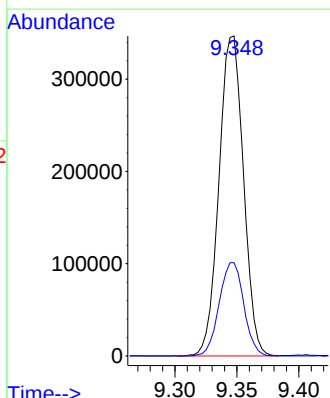
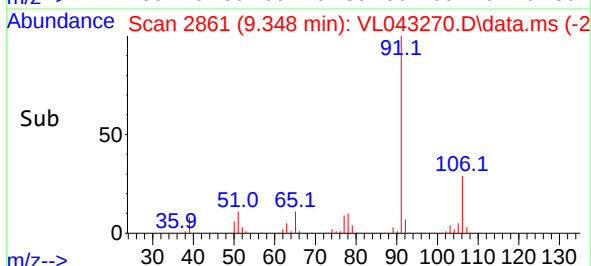
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

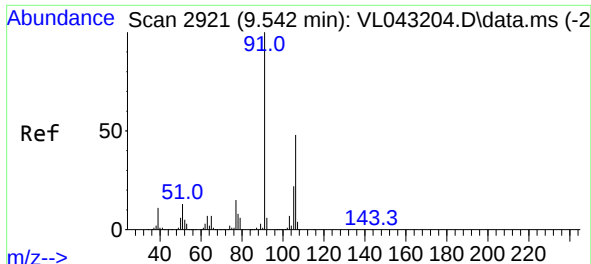


#58
Ethyl Benzene
Concen: 11.156 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02



Tgt Ion: 91 Resp: 477084
Ion Ratio Lower Upper
91 100
106 29.2 22.8 34.2





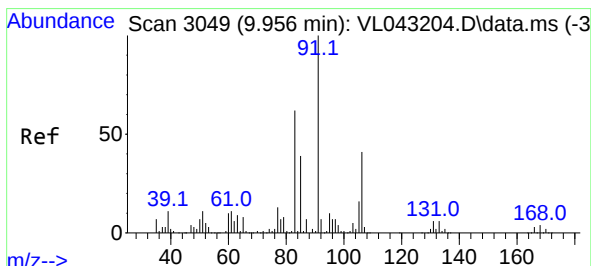
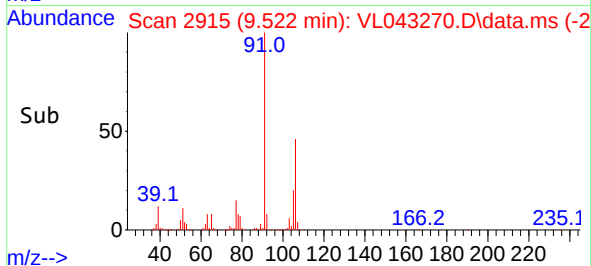
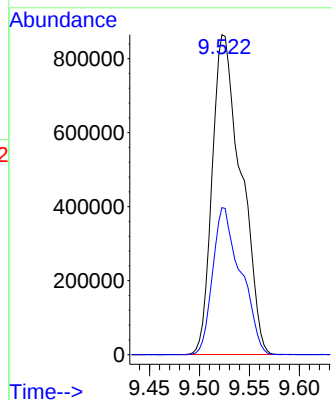
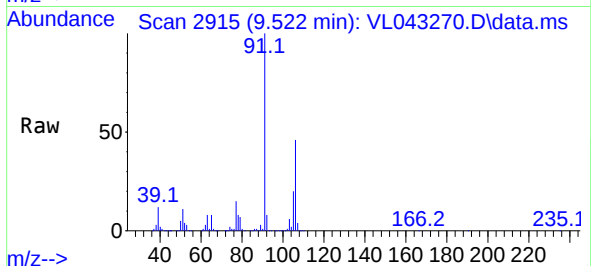
#59
m/p-Xylene
Concen: 50.776 ppbv
RT: 9.522 min Scan# 2915
Delta R.T. -0.020 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 1740919
Ion Ratio Lower Upper
91 100
106 44.8 36.1 54.1

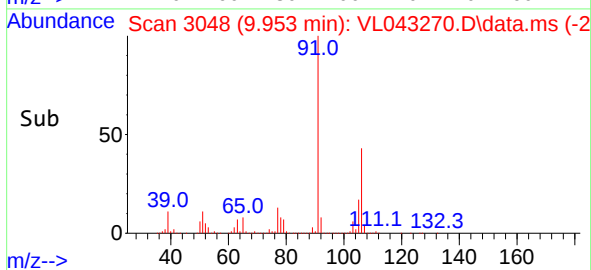
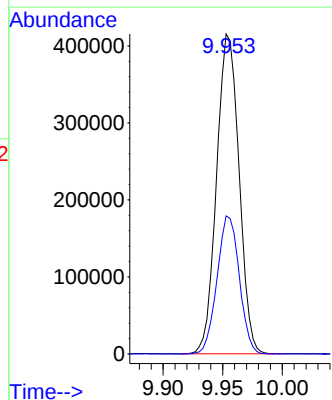
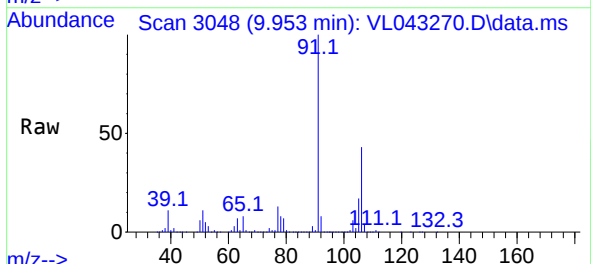
Manual Integrations
APPROVED

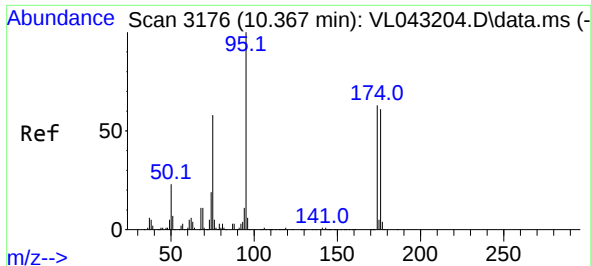
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#60
o-Xylene
Concen: 15.880 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.003 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

Tgt Ion: 91 Resp: 543908
Ion Ratio Lower Upper
91 100
106 42.7 20.9 62.8





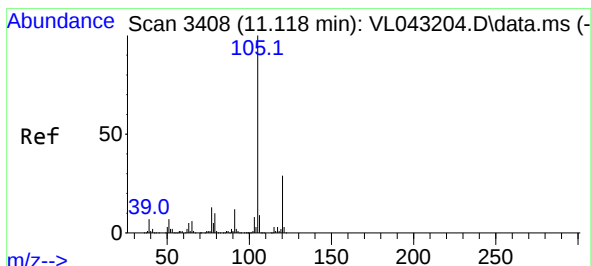
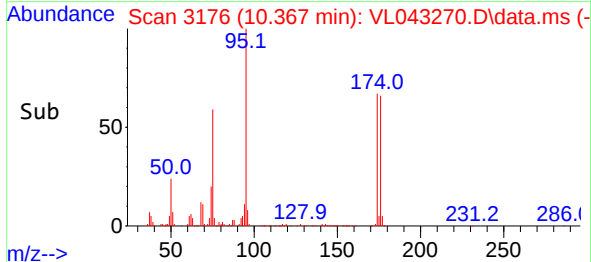
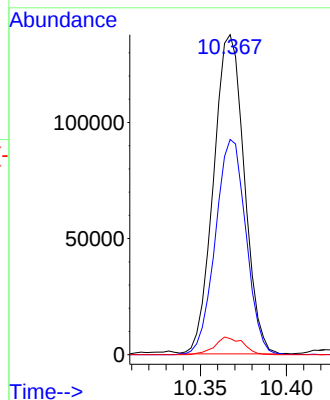
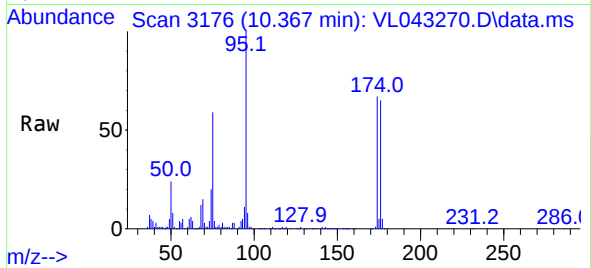
#68
1-Bromo-4-Fluorobenzene
Concen: 10.475 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 95 Resp: 17060
Ion Ratio Lower Upper
95 100
174 67.3 50.2 75.2
175 5.1 4.1 6.1

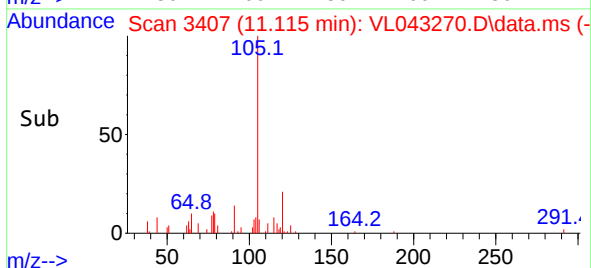
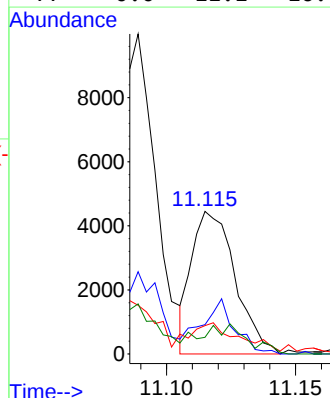
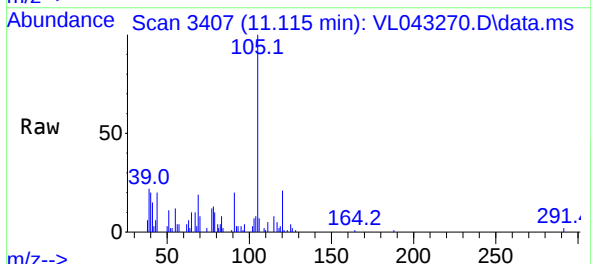
Manual Integrations
APPROVED

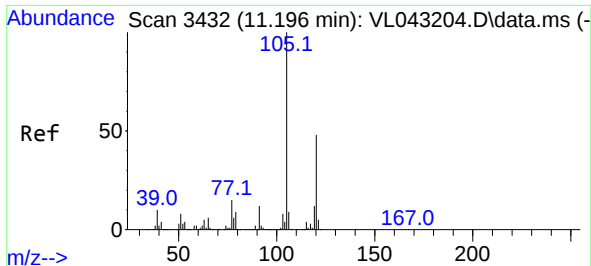
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#72
4-Ethyltoluene
Concen: 0.125 ppbv
RT: 11.115 min Scan# 3407
Delta R.T. -0.003 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

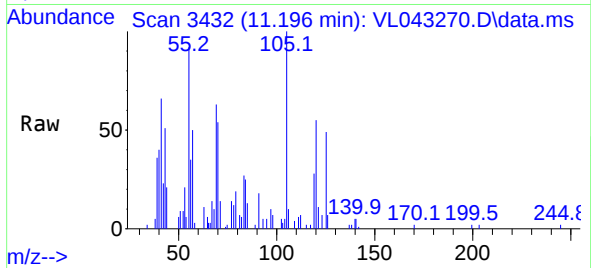
Tgt Ion:105 Resp: 5206
Ion Ratio Lower Upper
105 100
120 0.0 23.8 35.8#
91 0.0 10.3 15.5#
77 0.0 11.1 16.7#





#73
1,3,5-Trimethylbenzene
Concen: 0.119 ppbv m
RT: 11.196 min Scan# 3432
Delta R.T. -0.000 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02

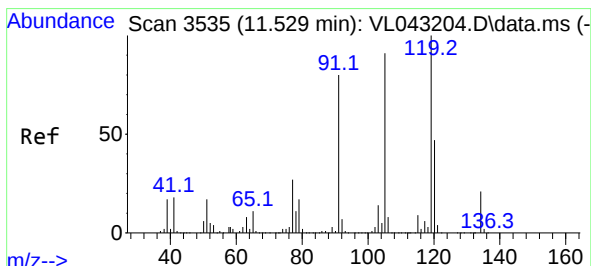
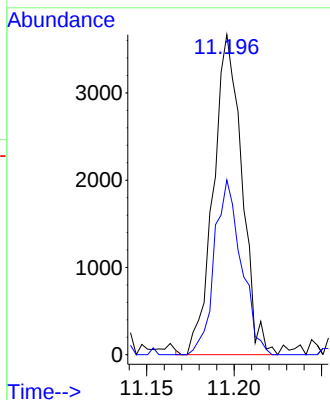
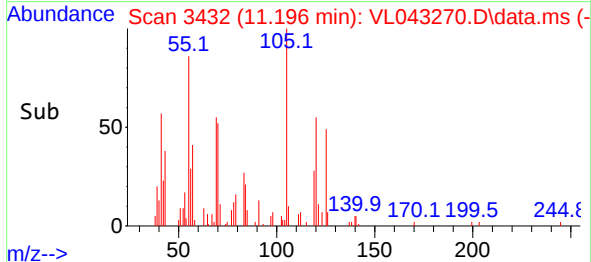
Instrument :
MSVOA_L
ClientSampleId :
IA1



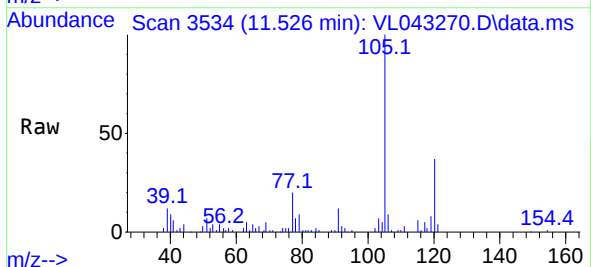
Tgt Ion:105 Resp: 4148
Ion Ratio Lower Upper
105 100
120 54.6 38.6 57.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.410 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.003 min
Lab File: VL043270.D
Acq: 20 Nov 2025 18:02



Tgt Ion:105 Resp: 15663
Ion Ratio Lower Upper
105 100
120 37.1 41.7 62.5#
91 10.9 70.0 105.0#
77 19.0 23.8 35.8#

