

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043223.D
 Acq On : 18 Nov 2025 21:01
 Operator : SY/MD
 Sample : Q3651-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

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

Quant Time: Nov 19 01:40:14 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	2.784	49	93548	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	242389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	194239	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	146822	10.312	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1863	0.141	ppbv #	88
9) Propene	1.486	41	3767	0.684	ppbv #	1
10) Heptane	4.975	43	8617m	0.525	ppbv	
11) Trichlorofluoromethane	1.877	101	14421	1.128	ppbv	94
13) Ethanol	1.719	45	6187	3.193	ppbv	93
15) Acetone	1.832	43	297113	22.860	ppbv	100
17) tert-Butyl alcohol	2.039	59	1822m	0.107	ppbv	
19) Isopropyl Alcohol	1.884	45	53776	7.322	ppbv #	1
20) Methylene Chloride	2.059	84	119411	32.984	ppbv	96
26) Hexane	2.823	57	19949	1.623	ppbv #	45
30) Cyclohexane	3.852	84	3231	0.314	ppbv #	85
32) 1,1,1-Trichloroethane	3.366	97	1763m	0.095	ppbv	
34) 2-Butanone	2.554	43	62654	3.662	ppbv	100
36) Benzene	3.648	78	3340m	0.144	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	5693m	0.143	ppbv	
51) 2-Hexanone	7.431	43	13865m	0.741	ppbv	
52) Tetrachloroethene	8.215	164	2137m	0.247	ppbv	
53) Toluene	6.920	91	194541	7.078	ppbv	97
58) Ethyl Benzene	9.351	91	19035	0.509	ppbv	99
59) m/p-Xylene	9.526	91	48124	1.606	ppbv	100
60) o-Xylene	9.953	91	16493	0.551	ppbv	97
73) 1,3,5-Trimethylbenzene	11.199	105	3667	0.120	ppbv	95
74) 1,2,4-Trimethylbenzene	11.529	105	7730	0.231	ppbv #	49

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

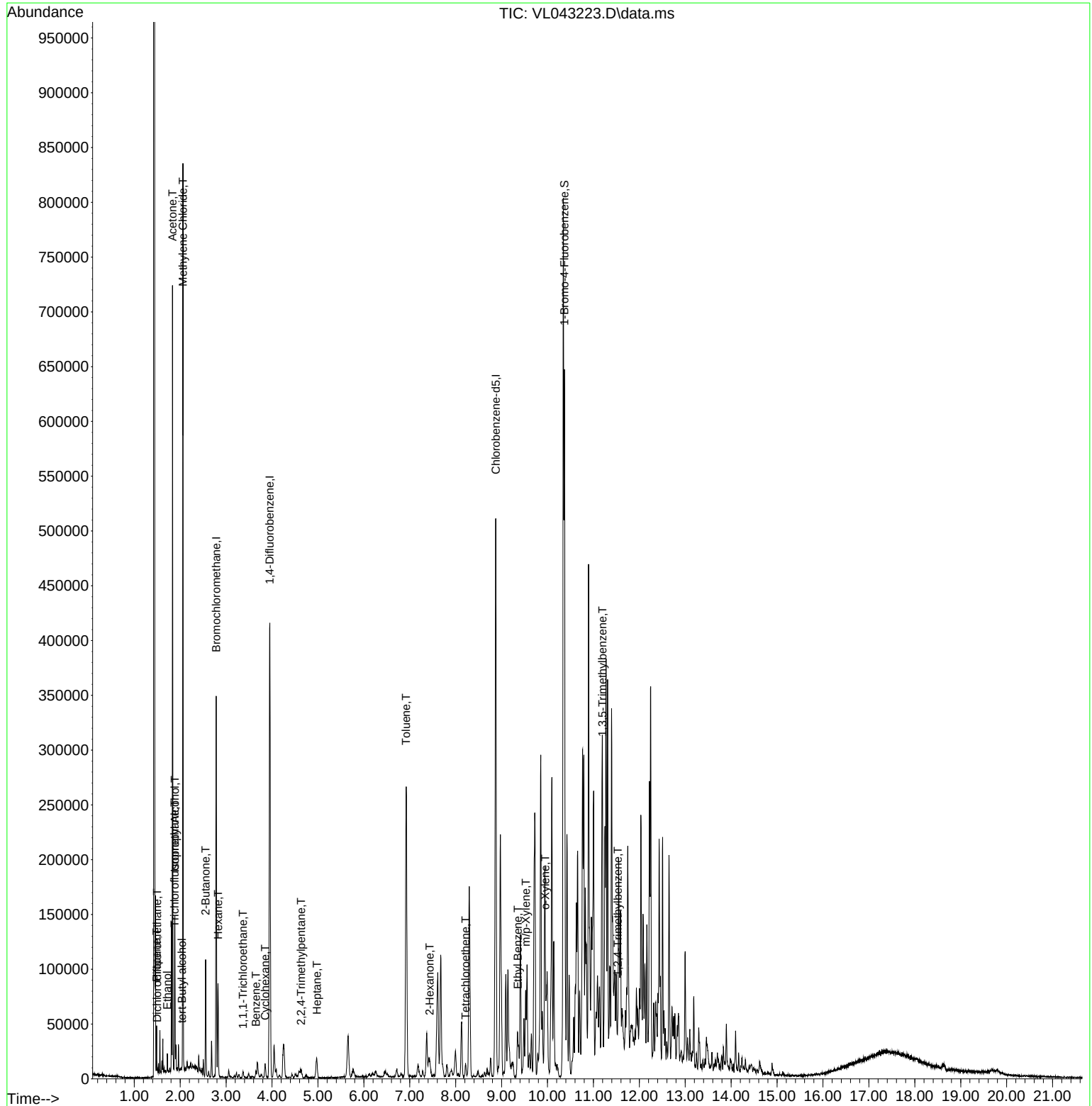
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043223.D
Acq On : 18 Nov 2025 21:01
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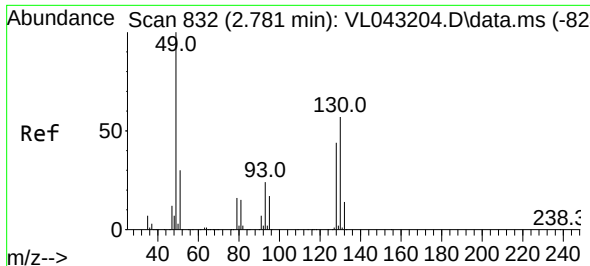
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Nov 19 01:40:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

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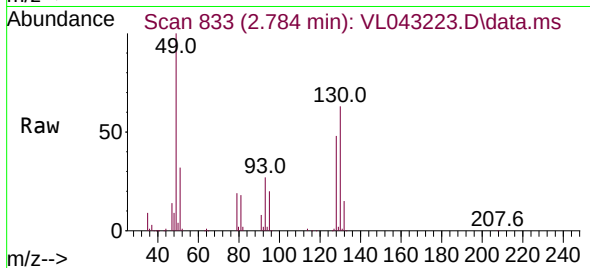
Reviewed By : Semsettin Yesilyurt 11/19/2025
Supervised By : Mahesh Dadoda 11/19/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 832
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

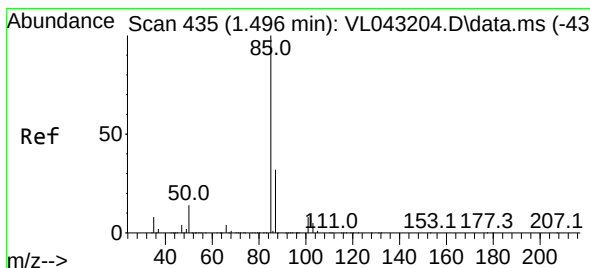
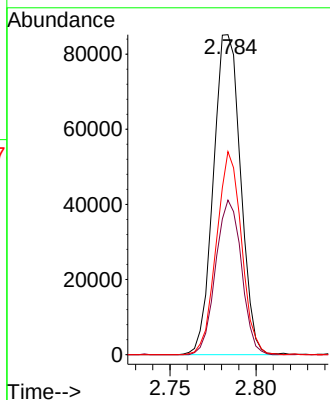
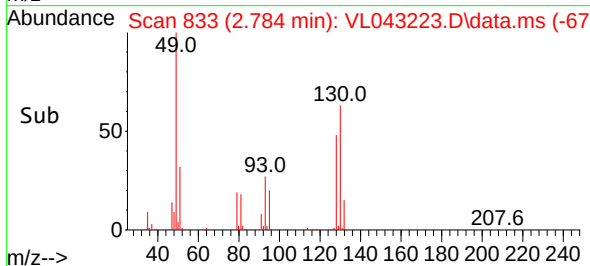
Instrument :
MSVOA_L
ClientSampleId :
SV2



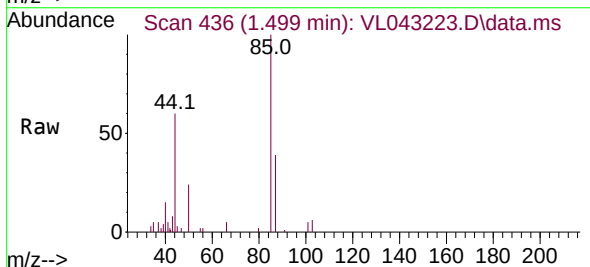
Tgt Ion: 49 Resp: 93548
Ion Ratio Lower Upper
49 100
128 45.8 23.0 69.0
130 58.6 29.9 89.7

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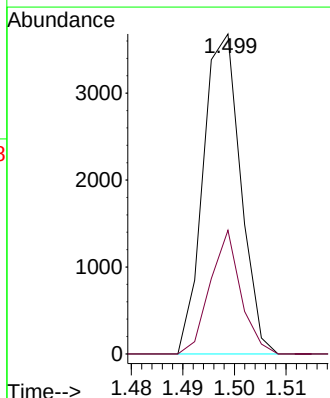
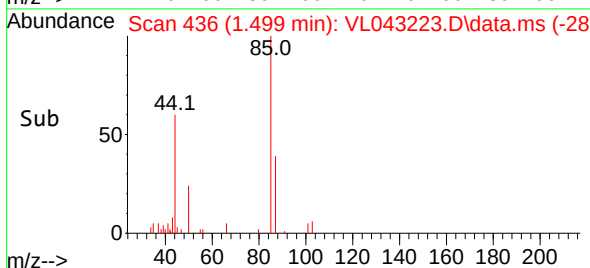
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

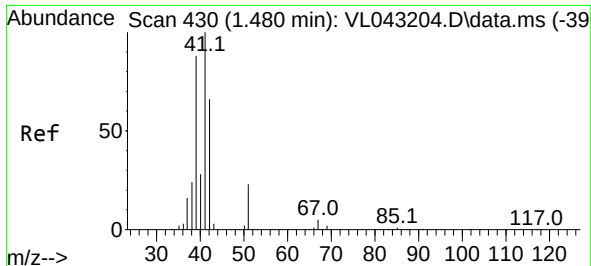


#2
Dichlorodifluoromethane
Concen: 0.141 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01



Tgt Ion: 85 Resp: 1863
Ion Ratio Lower Upper
85 100
87 38.6 25.4 38.2#





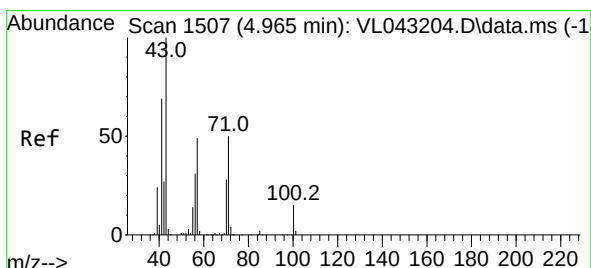
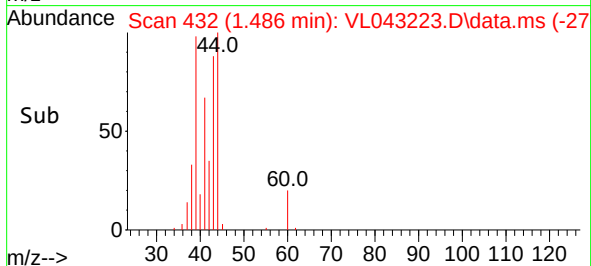
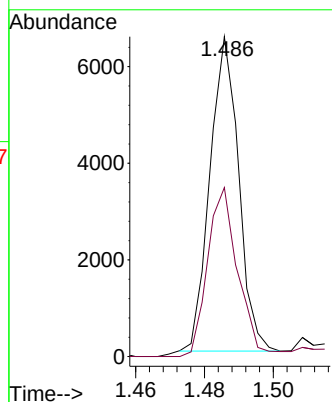
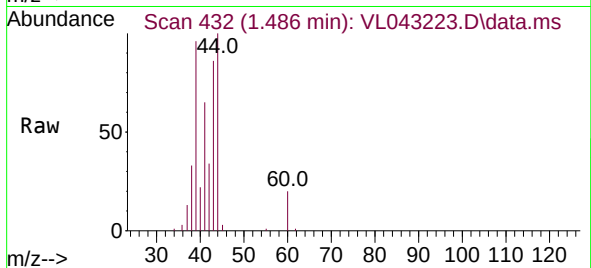
#9
Propene
Concen: 0.684 ppbv
RT: 1.486 min Scan# 431
Delta R.T. 0.006 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 41 Resp: 3762
Ion Ratio Lower Upper
41 100
42 62.5 3.7 5.5

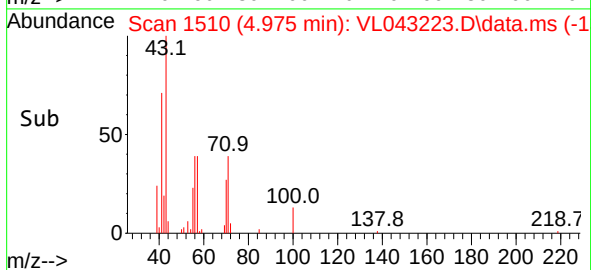
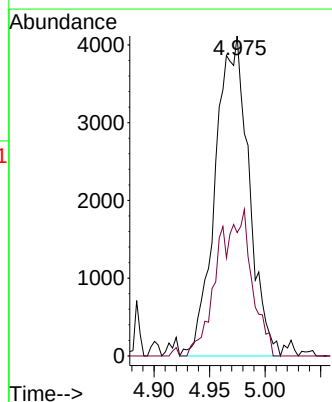
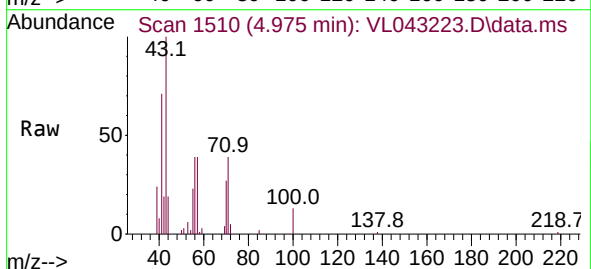
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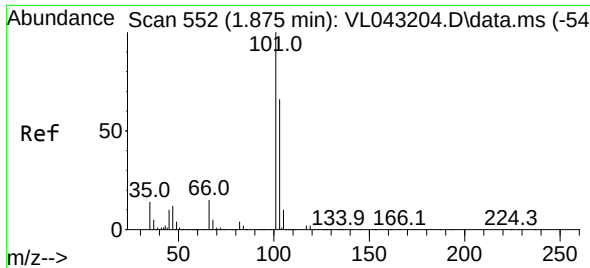
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#10
Heptane
Concen: 0.525 ppbv m
RT: 4.975 min Scan# 1510
Delta R.T. 0.009 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 43 Resp: 8617
Ion Ratio Lower Upper
43 100
57 0.0 39.7 59.5





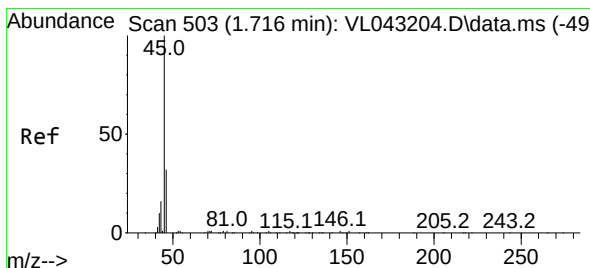
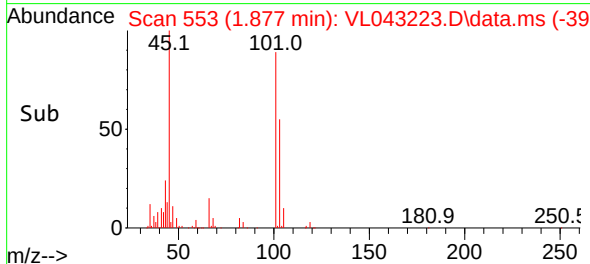
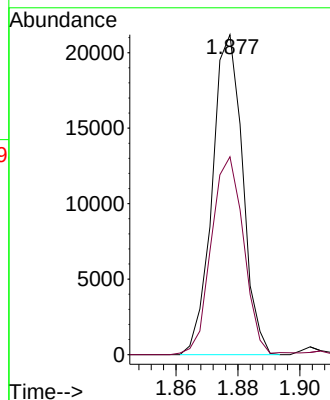
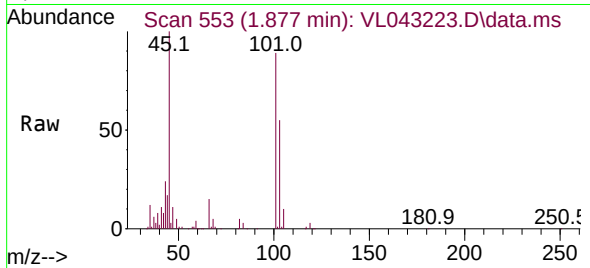
#11
Trichlorofluoromethane
Concen: 1.128 ppbv
RT: 1.877 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:101 Resp: 1442
Ion Ratio Lower Upper
101 100
103 61.3 52.6 79.0

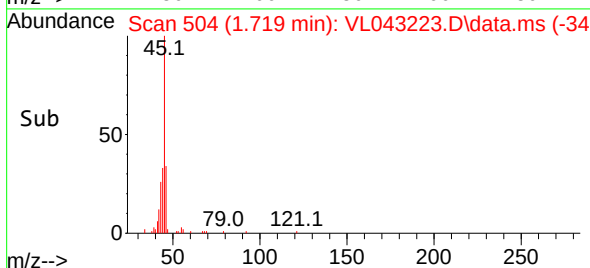
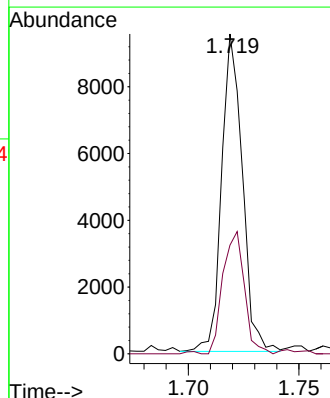
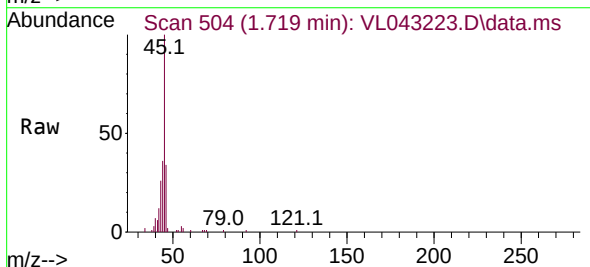
Manual Integrations
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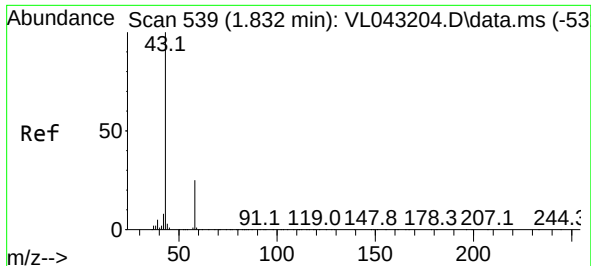
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#13
Ethanol
Concen: 3.193 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

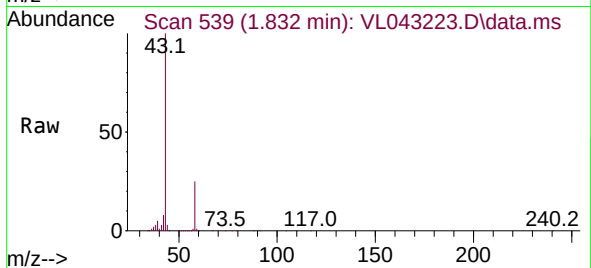
Tgt Ion: 45 Resp: 6187
Ion Ratio Lower Upper
45 100
46 41.7 15.0 59.8





#15
Acetone
Concen: 22.860 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

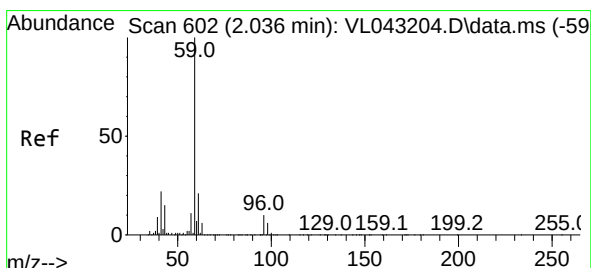
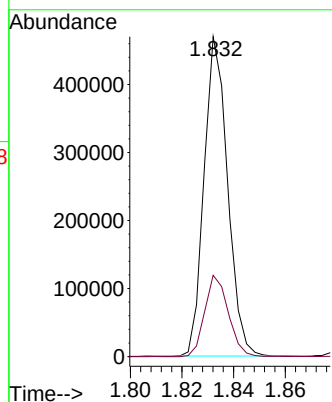
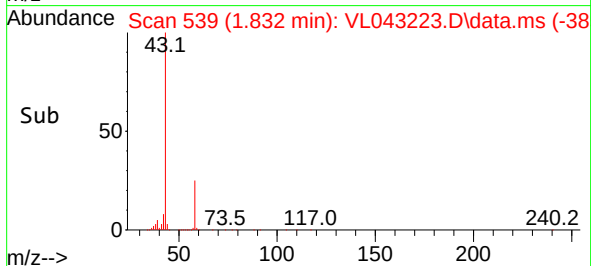
Instrument :
MSVOA_L
ClientSampleId :
SV2



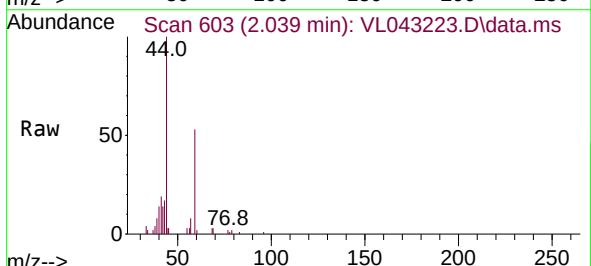
Tgt Ion: 43 Resp: 297113
Ion Ratio Lower Upper
43 100
58 25.7 20.7 31.1

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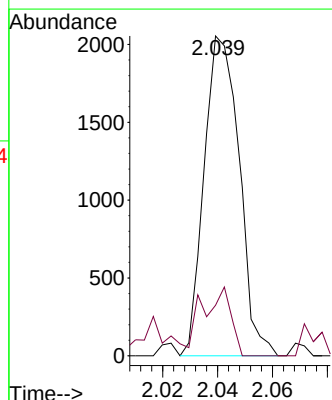
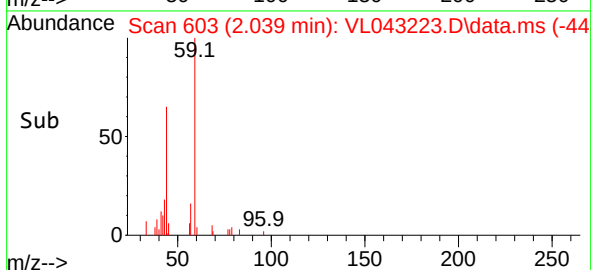
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

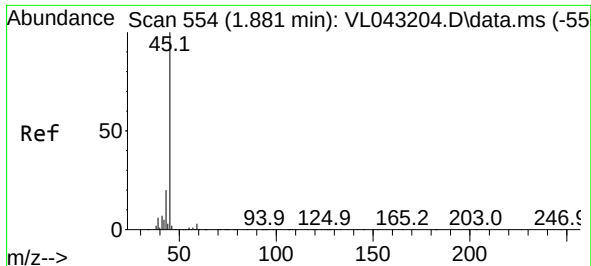


#17
tert-Butyl alcohol
Concen: 0.107 ppbv m
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01



Tgt Ion: 59 Resp: 1822
Ion Ratio Lower Upper
59 100
57 12.3 9.0 13.4





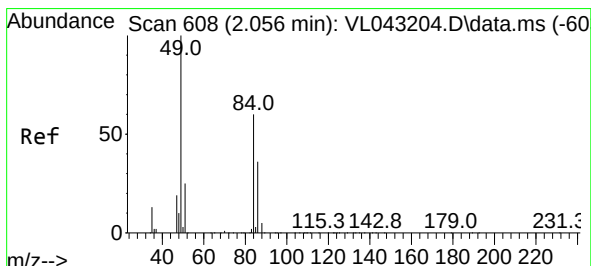
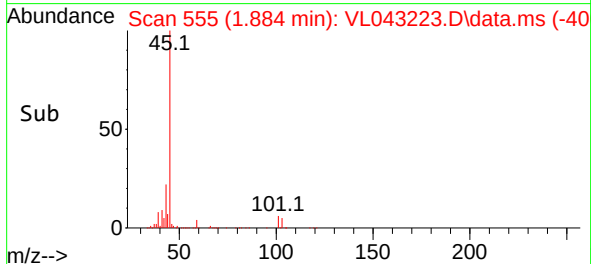
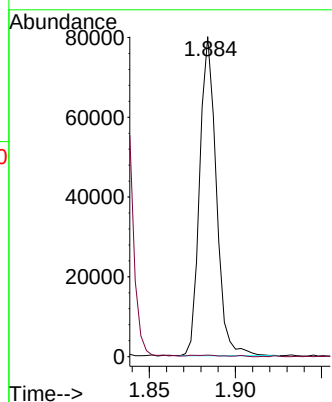
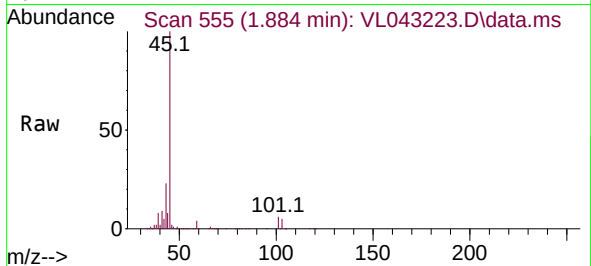
#19
Isopropyl Alcohol
Concen: 7.322 ppbv
RT: 1.884 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 53776
Ion Ratio Lower Upper
45 100
58 142.2 31.3 46.9

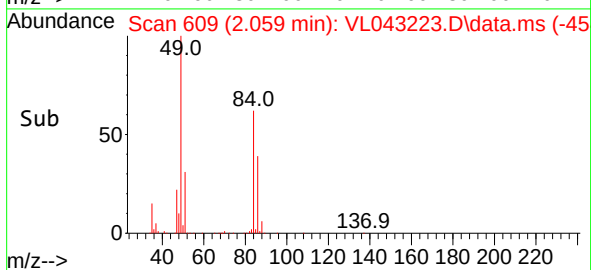
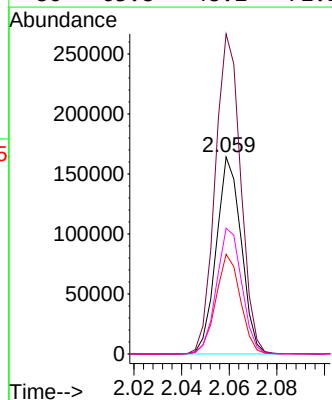
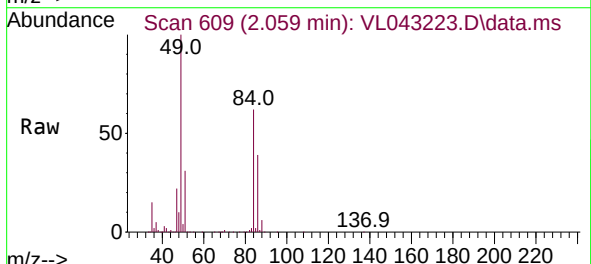
Manual Integrations
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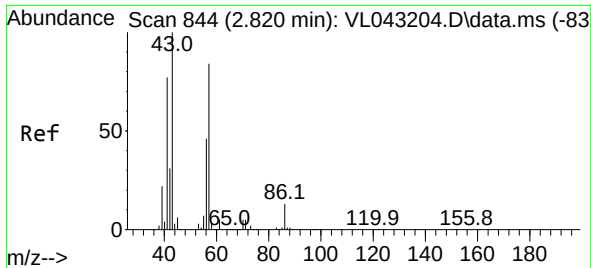
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 32.984 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

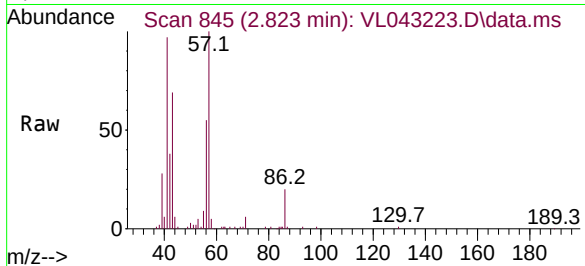
Tgt Ion: 84 Resp: 119411
Ion Ratio Lower Upper
84 100
49 162.5 132.9 199.3
51 50.6 34.8 52.2
86 63.8 48.2 72.2





#26
Hexane
Concen: 1.623 ppbv
RT: 2.823 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

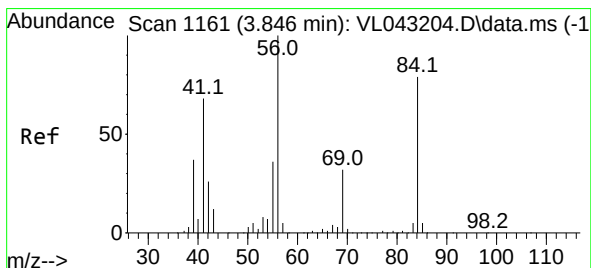
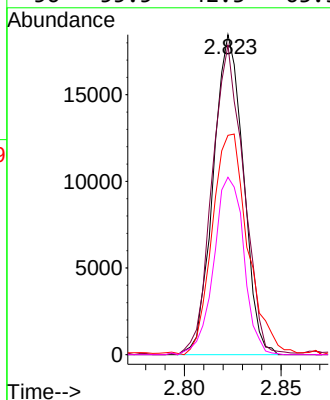
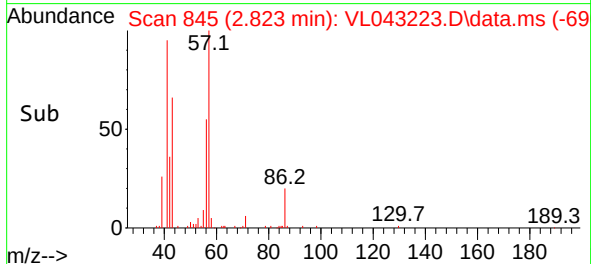
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 19949
Ion Ratio Lower Upper
57 100
41 102.9 74.6 111.8
43 83.5 179.0 268.4
56 55.5 42.3 63.5

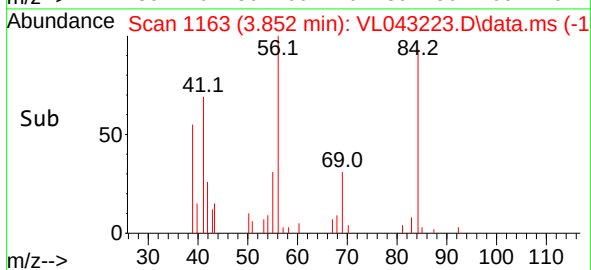
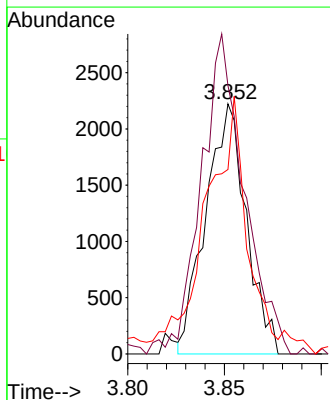
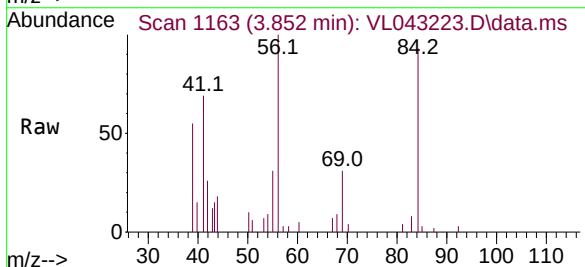
Manual Integrations
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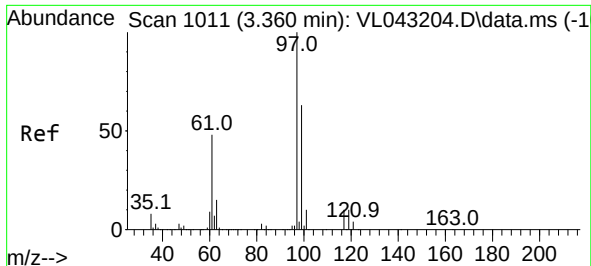
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#30
Cyclohexane
Concen: 0.314 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.006 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 84 Resp: 3231
Ion Ratio Lower Upper
84 100
56 136.5 104.7 157.1
41 114.8 69.0 103.6





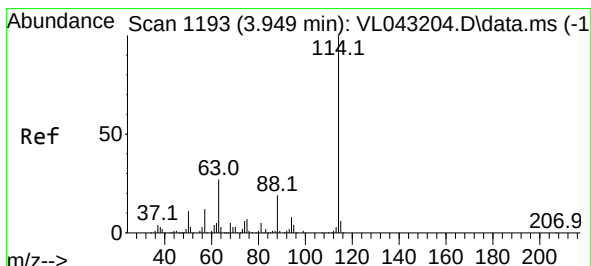
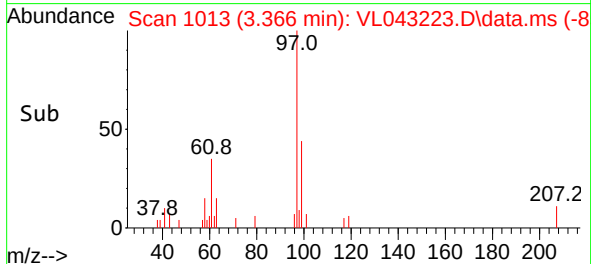
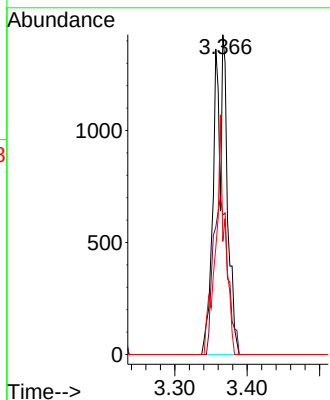
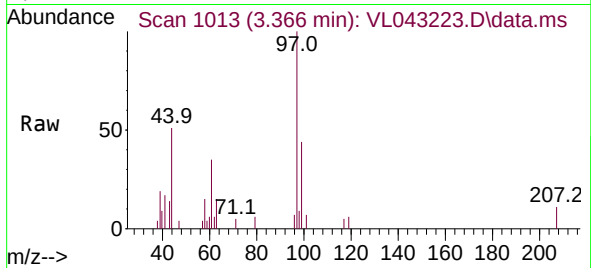
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1,1,1-Trichloroethane
Concen: 0.095 ppbv m
RT: 3.366 min Scan# 1011
Delta R.T. 0.006 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 97 Resp: 1763
Ion Ratio Lower Upper
97 100
99 56.8 50.3 75.5
61 55.0 38.9 58.3

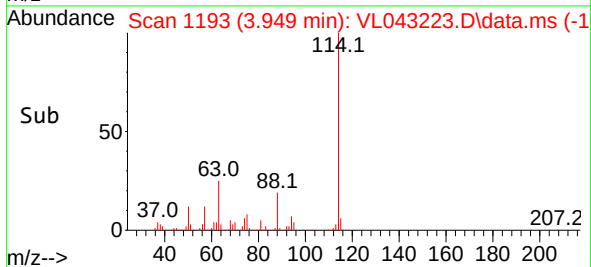
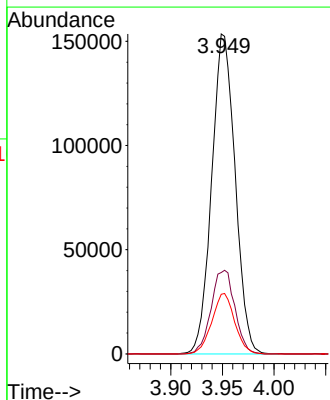
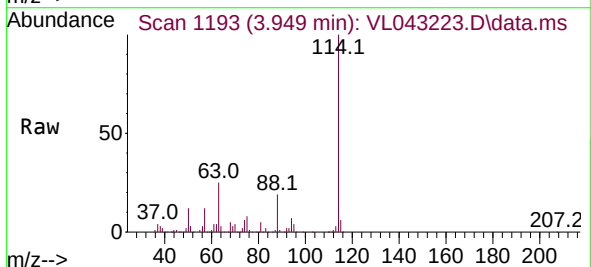
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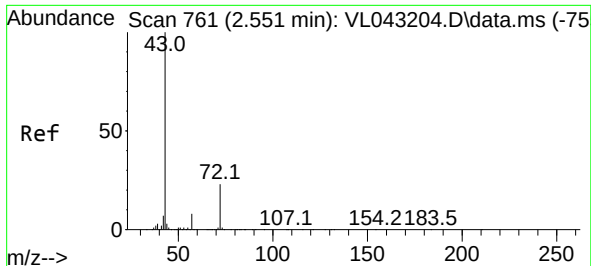
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

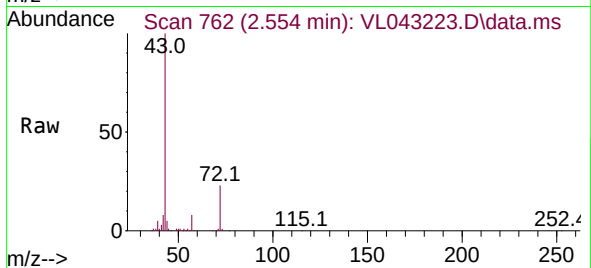
Tgt Ion:114 Resp: 242389
Ion Ratio Lower Upper
114 100
63 26.5 21.0 31.6
88 18.4 14.9 22.3





#34
2-Butanone
Concen: 3.662 ppbv
RT: 2.554 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

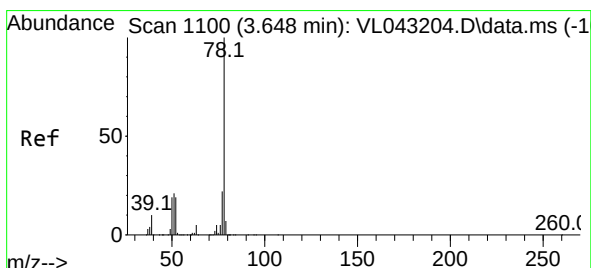
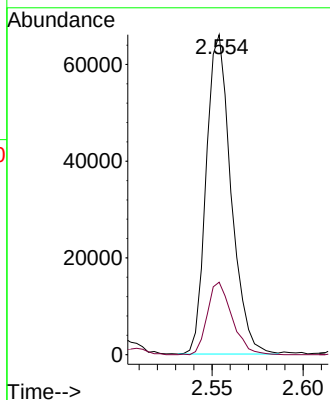
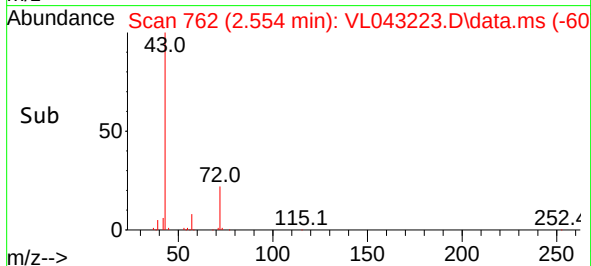
Instrument :
MSVOA_L
Client SampleId :
SV2



Tgt Ion: 43 Resp: 62654
Ion Ratio Lower Upper
43 100
72 22.5 18.1 27.1

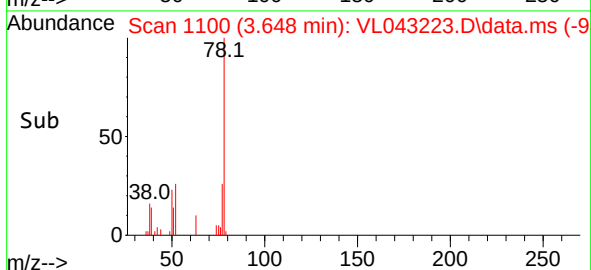
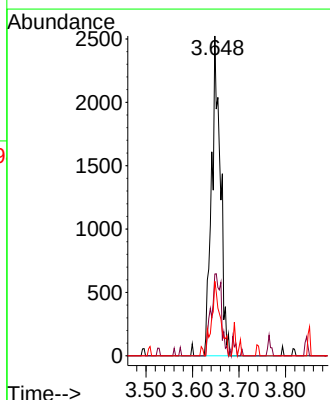
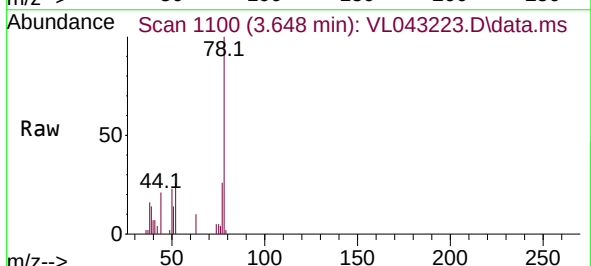
Manual Integrations
APPROVED

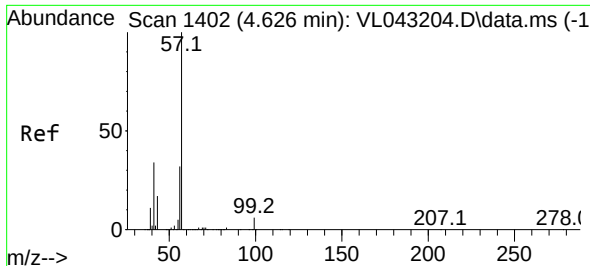
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#36
Benzene
Concen: 0.144 ppbv m
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

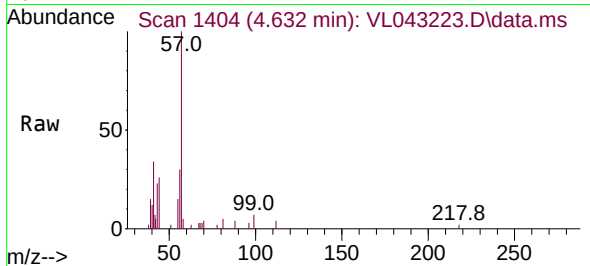
Tgt Ion: 78 Resp: 3340
Ion Ratio Lower Upper
78 100
77 25.6 17.5 26.3
50 23.3 15.5 23.3#





#44
2,2,4-Trimethylpentane
Concen: 0.143 ppbv m
RT: 4.632 min Scan# 1402
Delta R.T. 0.006 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

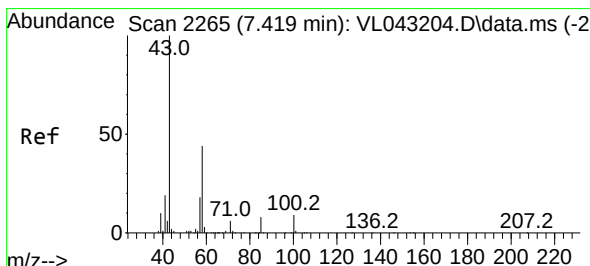
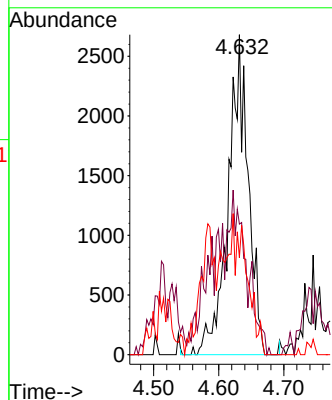
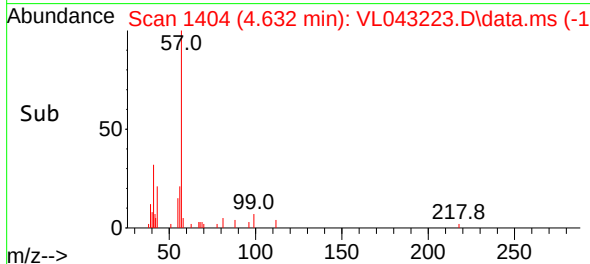
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 5693
Ion Ratio Lower Upper
57 100
41 62.8 28.0 42.0
56 36.9 25.6 38.4

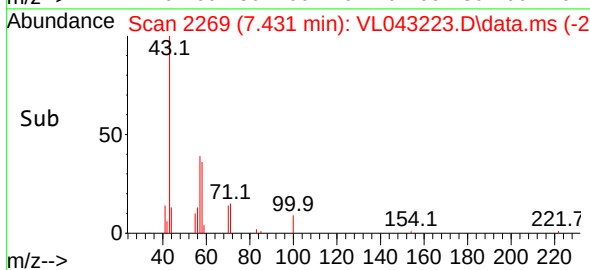
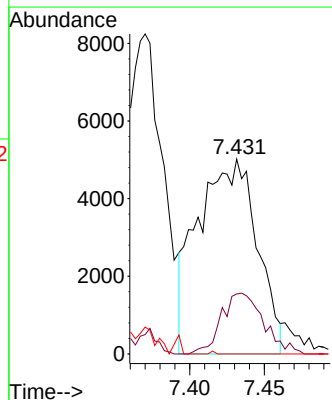
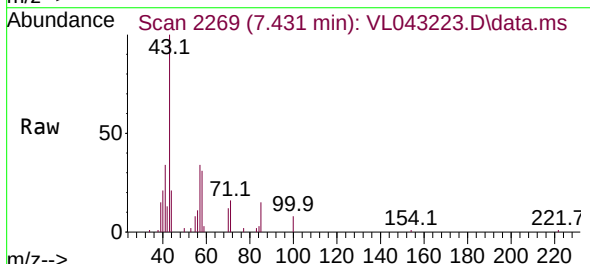
Manual Integrations
APPROVED

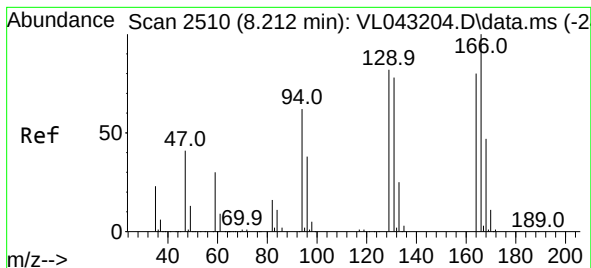
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#51
2-Hexanone
Concen: 0.741 ppbv m
RT: 7.431 min Scan# 2269
Delta R.T. 0.013 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

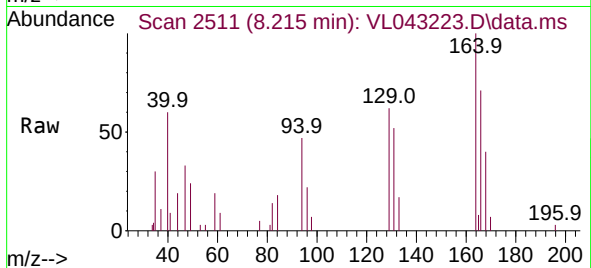
Tgt Ion: 43 Resp: 13865
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6
98 0.0 0.0 0.0





#52
Tetrachloroethene
Concen: 0.247 ppbv m
RT: 8.215 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

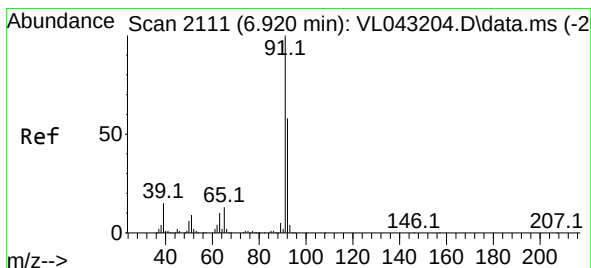
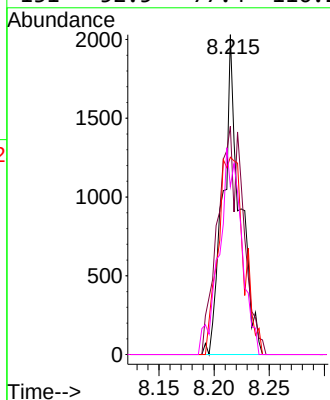
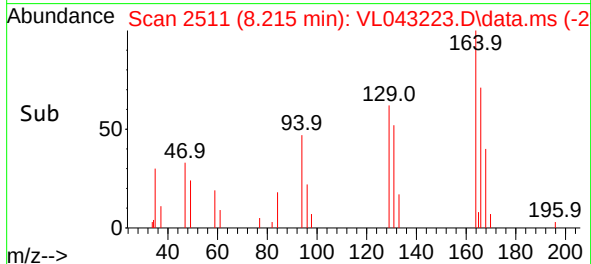
Instrument :
MSVOA_L
ClientSampleId :
SV2



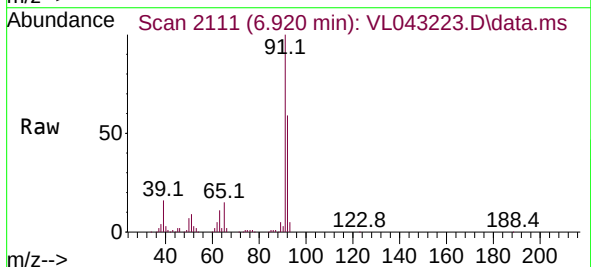
Tgt Ion:164 Resp: 2137
Ion Ratio Lower Upper
164 100
166 71.3 99.4 149.2
129 61.7 81.8 122.8
131 52.5 77.4 116.2

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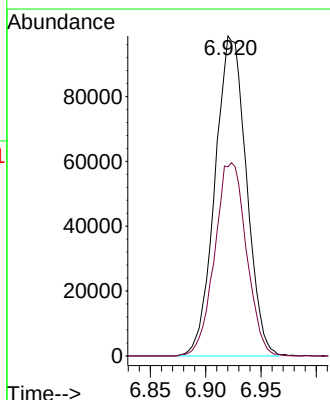
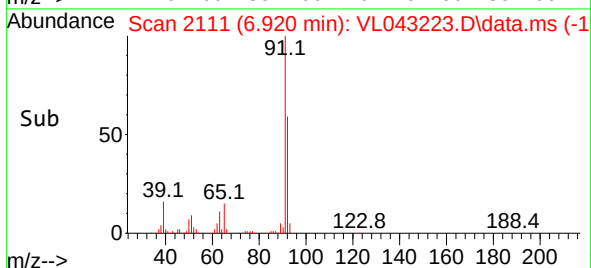
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

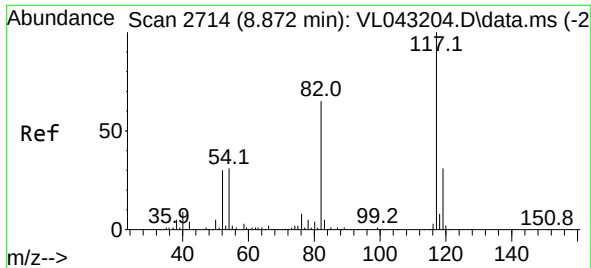


#53
Toluene
Concen: 7.078 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01



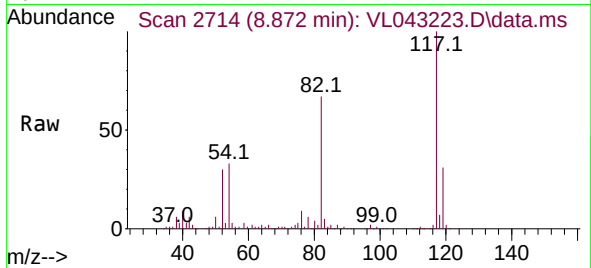
Tgt Ion: 91 Resp: 194541
Ion Ratio Lower Upper
91 100
92 61.1 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

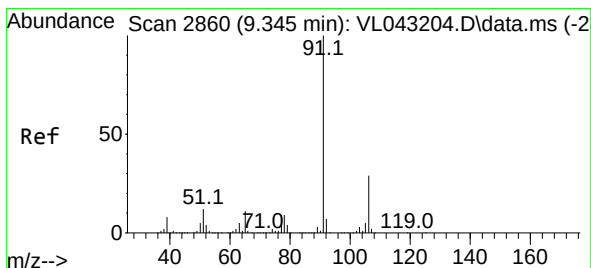
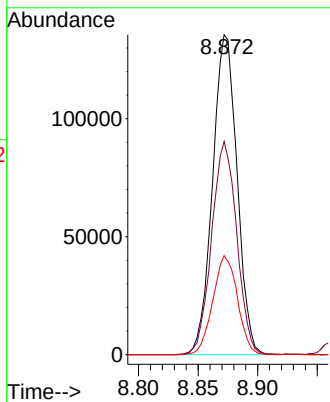
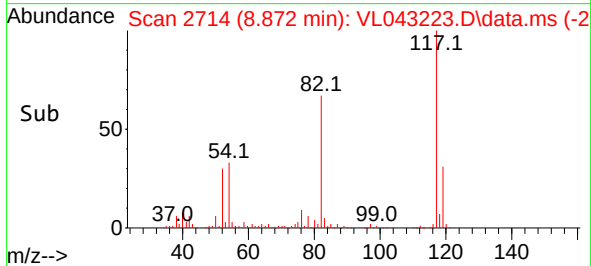
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 117 Resp: 194239
Ion Ratio Lower Upper
117 100
82 68.3 56.1 84.1
119 31.2 25.0 37.6

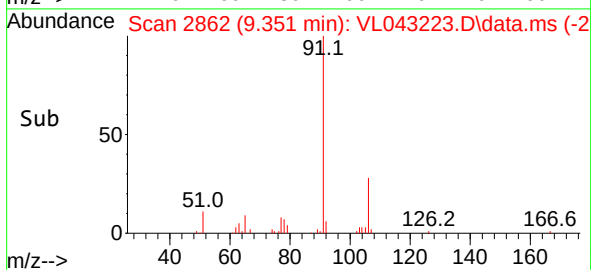
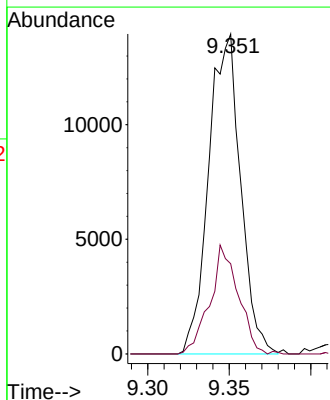
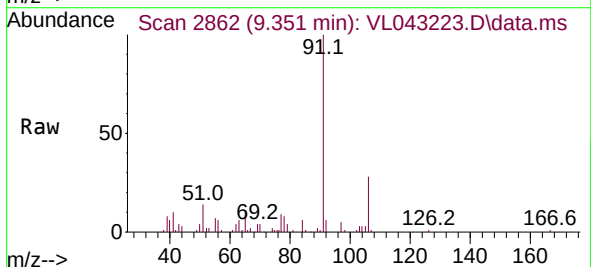
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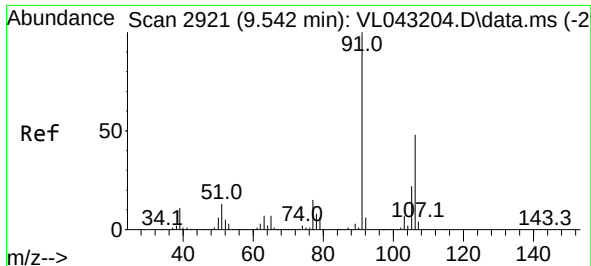
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 0.509 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. 0.006 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 91 Resp: 19035
Ion Ratio Lower Upper
91 100
106 28.2 22.8 34.2





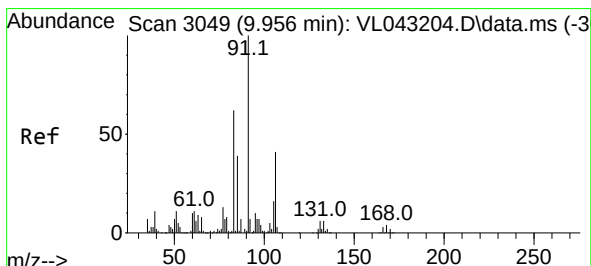
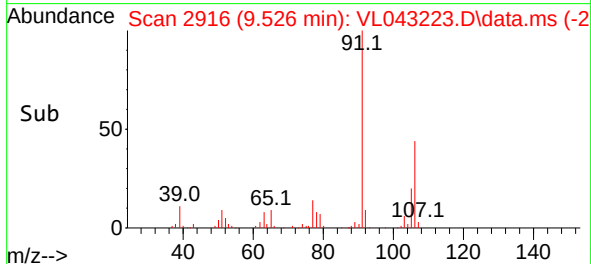
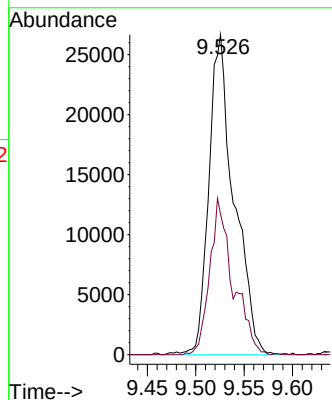
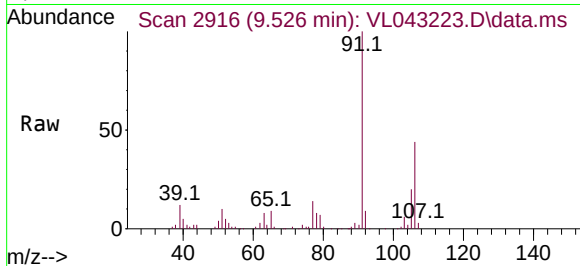
#59
m/p-Xylene
Concen: 1.606 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 48124
Ion Ratio Lower Upper
91 100
106 45.3 36.1 54.1

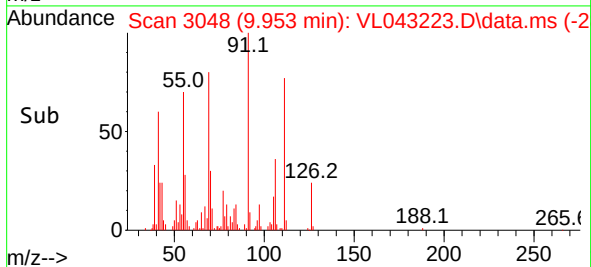
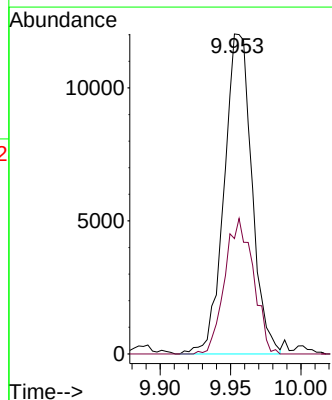
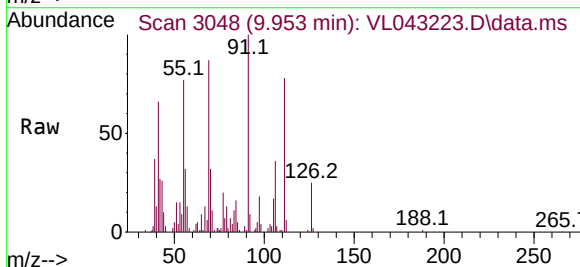
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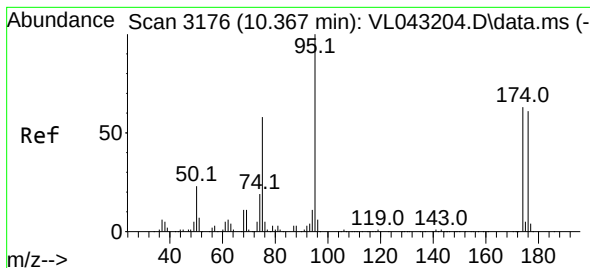
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#60
o-Xylene
Concen: 0.551 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.004 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 91 Resp: 16493
Ion Ratio Lower Upper
91 100
106 43.5 20.9 62.8





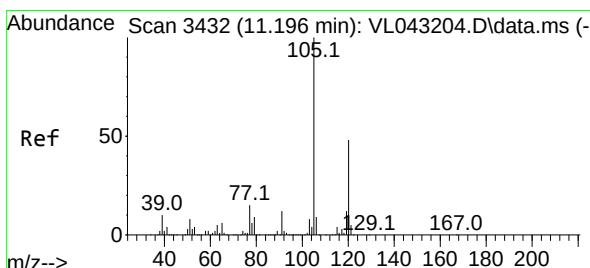
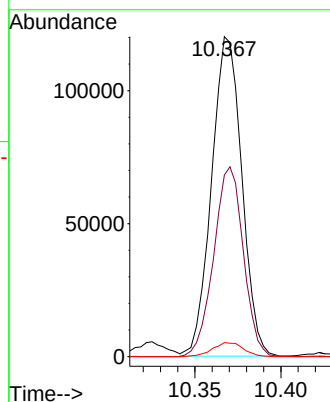
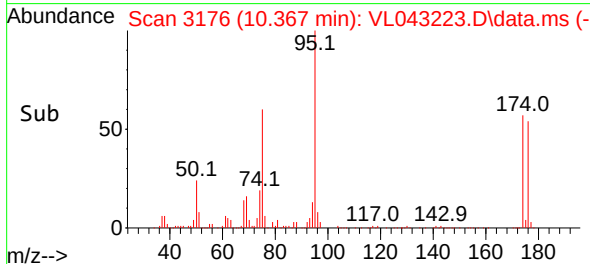
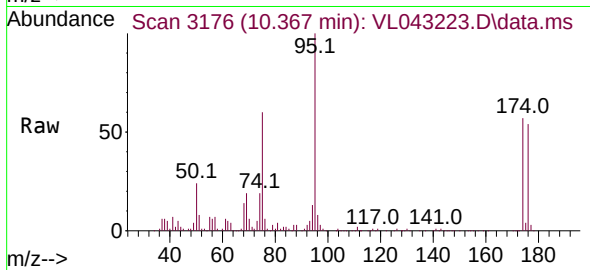
#68
1-Bromo-4-Fluorobenzene
Concen: 10.312 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 95 Resp: 146822
Ion Ratio Lower Upper
95 100
174 58.1 50.2 75.2
175 4.5 4.1 6.1

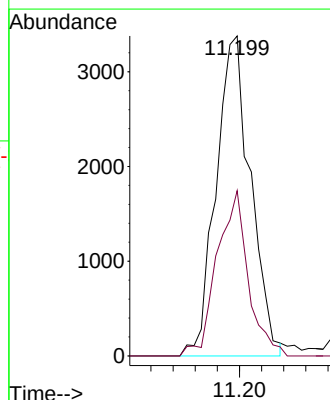
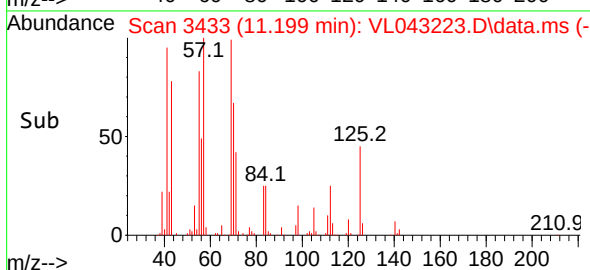
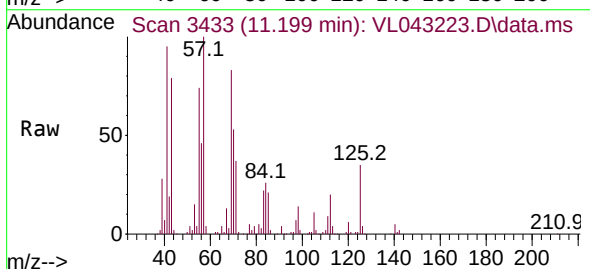
Manual Integrations
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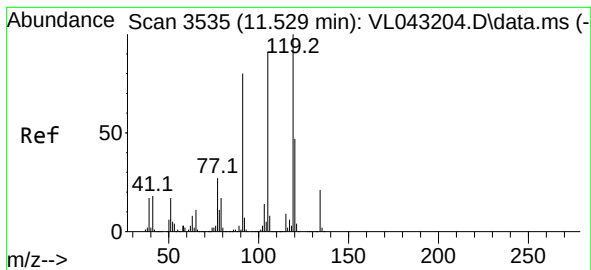
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.120 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

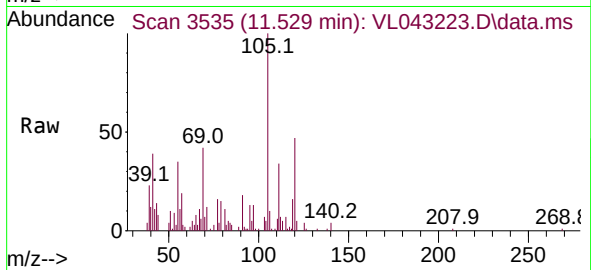
Tgt Ion:105 Resp: 3667
Ion Ratio Lower Upper
105 100
120 51.6 38.6 57.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.231 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. -0.000 min
 Lab File: VL043223.D
 Acq: 18 Nov 2025 21:01

Instrument : MSVOA_L
 ClientSampleId : SV2



Tgt Ion:	105	Resp:	7730
Ion	Ratio	Lower	Upper
105	100		
120	47.4	41.7	62.5
91	12.7	70.0	105.0
77	7.5	23.8	35.8

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

