

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043282.D
 Acq On : 24 Nov 2025 15:00
 Operator : SY/MD
 Sample : Q3696-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

Quant Time: Nov 24 23:41:05 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)

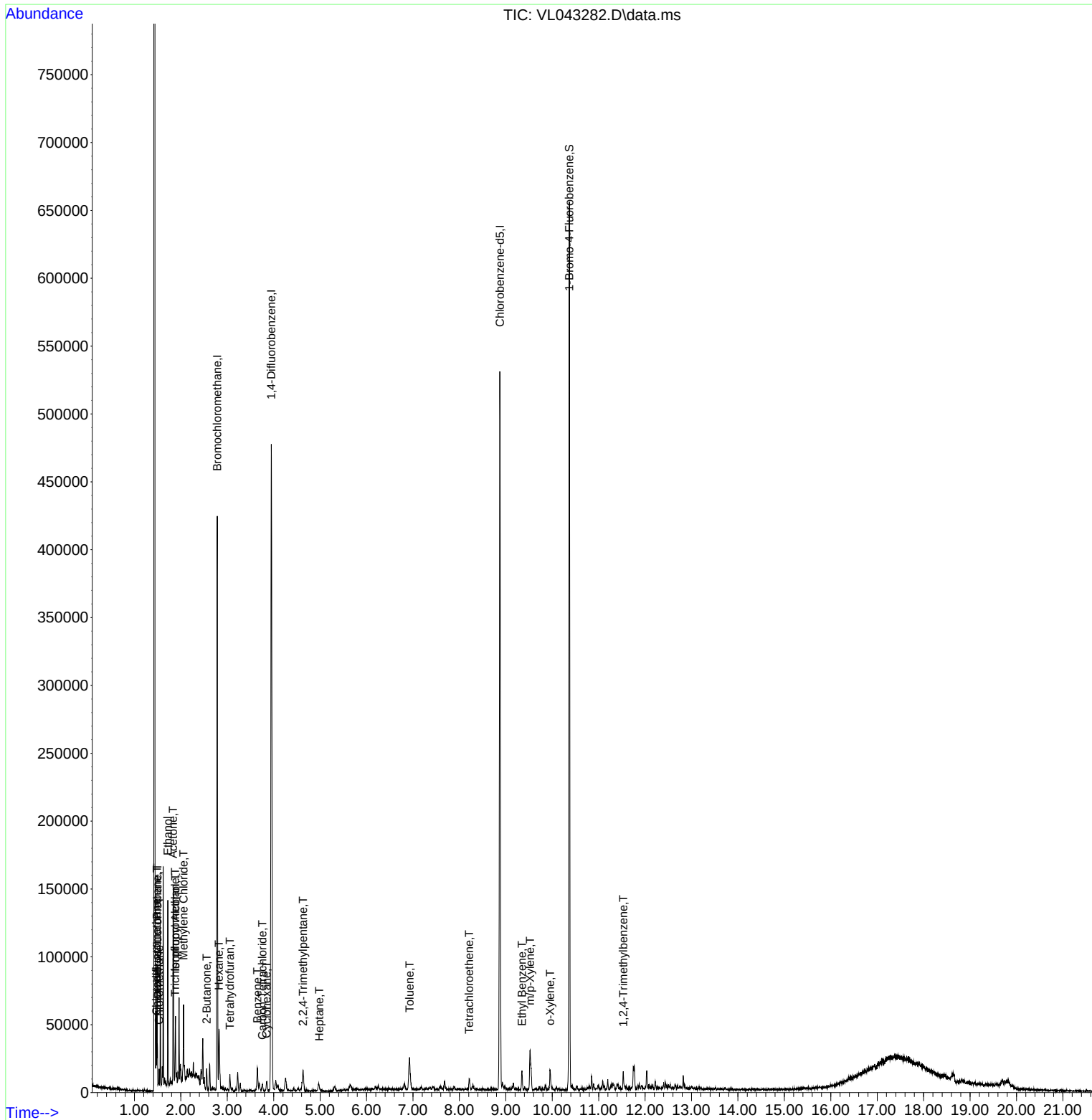
Internal Standards						
1) Bromochloromethane	2.784	49	105549	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	279590	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	213658	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	158544	10.123	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	7385	0.496	ppbv	98
3) Chlorodifluoromethane	1.473	51	3899m	0.266	ppbv	
4) Chloromethane	1.531	50	2948	0.530	ppbv	92
9) Propene	1.486	41	7646	1.230	ppbv #	1
10) Heptane	4.981	43	2349m	0.127	ppbv	
11) Trichlorofluoromethane	1.877	101	4588	0.318	ppbv	96
13) Ethanol	1.719	45	44714	20.454	ppbv	98
15) Acetone	1.832	43	71202	4.855	ppbv	95
19) Isopropyl Alcohol	1.884	45	17297	2.087	ppbv #	8
20) Methylene Chloride	2.059	84	7553	1.045	ppbv	93
26) Hexane	2.819	57	9933	0.716	ppbv #	64
30) Cyclohexane	3.845	84	1664m	0.143	ppbv	
34) 2-Butanone	2.557	43	10225	0.518	ppbv	96
35) Carbon Tetrachloride	3.758	117	1748m	0.082	ppbv	
36) Benzene	3.648	78	9377	0.350	ppbv #	82
41) Tetrahydrofuran	3.056	42	3975m	0.365	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	11643m	0.253	ppbv	
52) Tetrachloroethene	8.208	164	1312m	0.132	ppbv	
53) Toluene	6.927	91	14988m	0.473	ppbv	
58) Ethyl Benzene	9.348	91	6880m	0.167	ppbv	
59) m/p-Xylene	9.522	91	18983m	0.576	ppbv	
60) o-Xylene	9.956	91	6106	0.185	ppbv	95
74) 1,2,4-Trimethylbenzene	11.529	105	4200	0.114	ppbv #	48

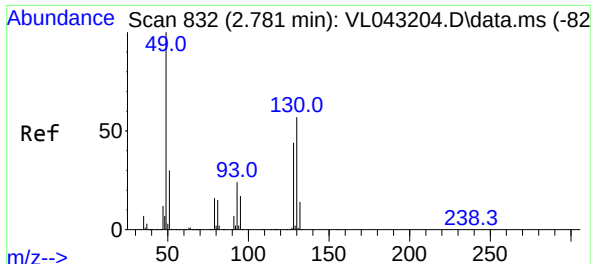
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integrations

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Quant Time: Nov 24 23:41:05 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





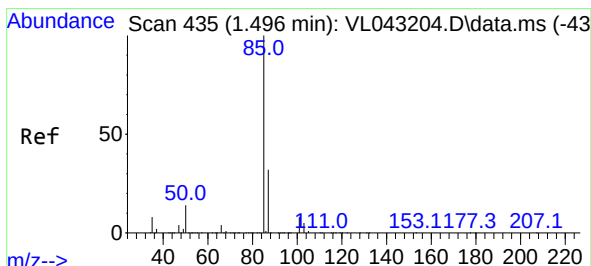
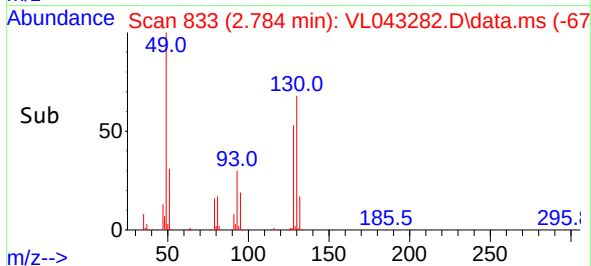
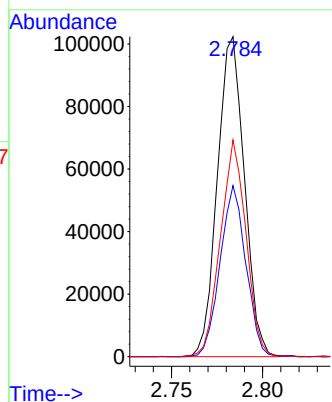
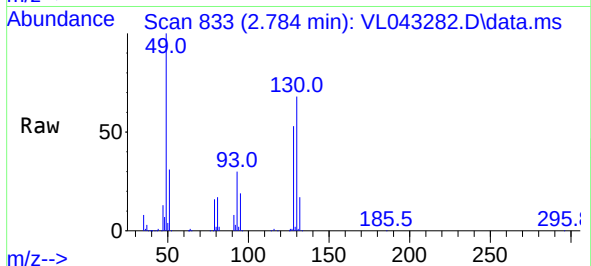
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 49 Resp: 105549
Ion Ratio Lower Upper
49 100
128 51.0 23.0 69.0
130 64.0 29.9 89.7

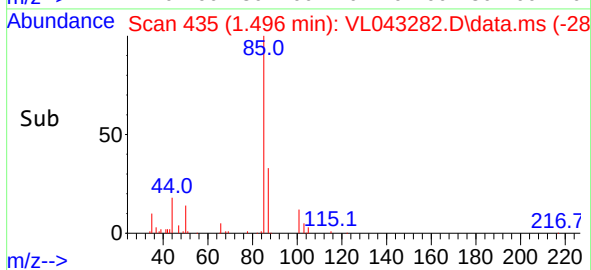
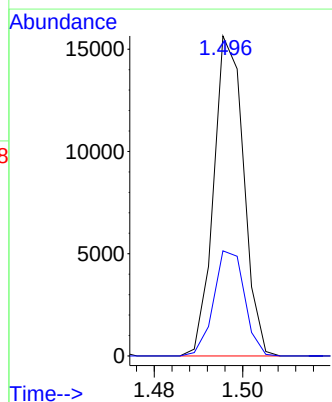
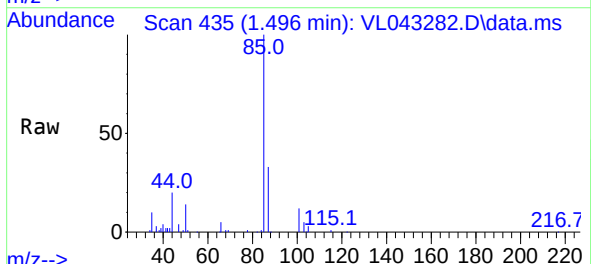
Manual Integrations
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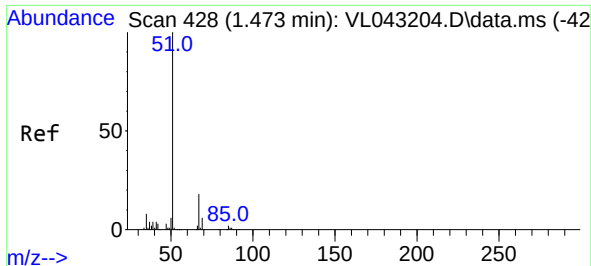
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#2
Dichlorodifluoromethane
Concen: 0.496 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

Tgt Ion: 85 Resp: 7385
Ion Ratio Lower Upper
85 100
87 32.8 25.4 38.2





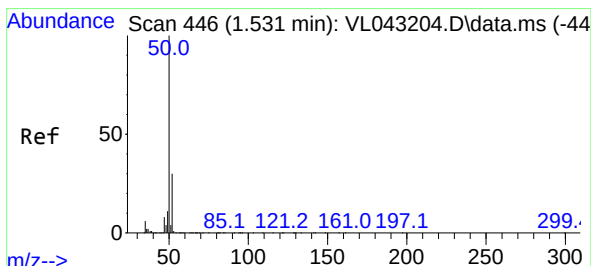
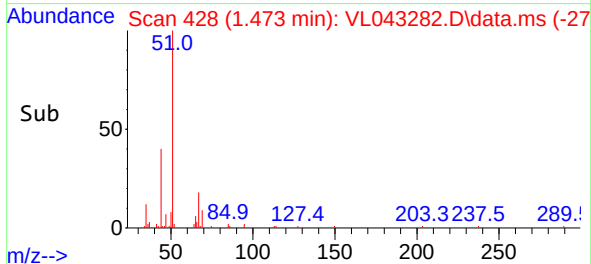
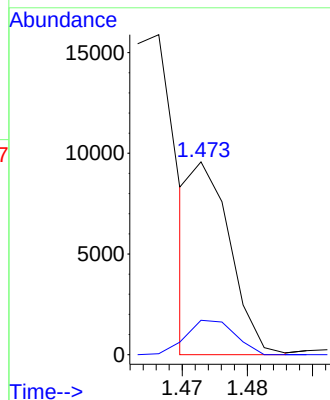
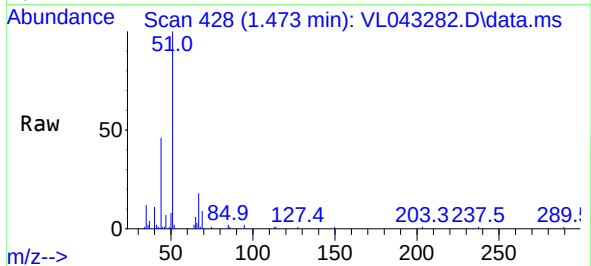
#3
Chlorodifluoromethane
Concen: 0.266 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 51 Resp: 389
Ion Ratio Lower Upper
51 100
67 23.1 14.9 22.3

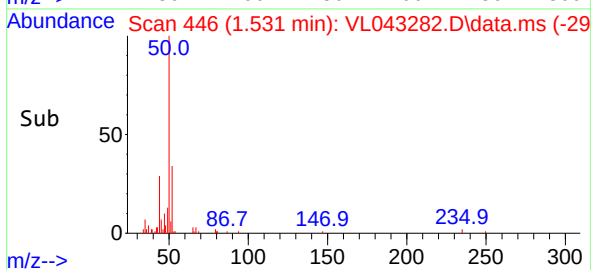
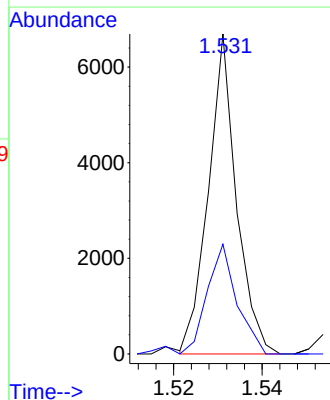
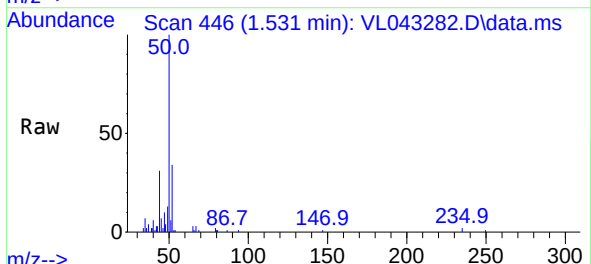
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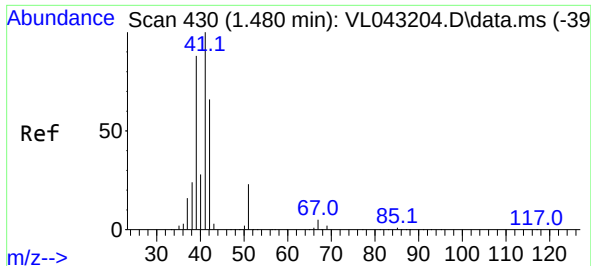
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#4
Chloromethane
Concen: 0.530 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

Tgt Ion: 50 Resp: 2948
Ion Ratio Lower Upper
50 100
52 34.3 24.1 36.1





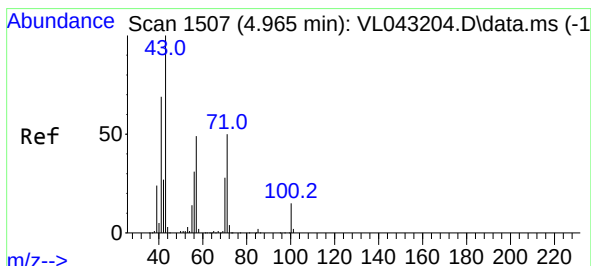
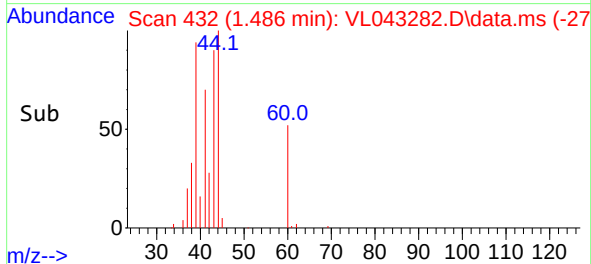
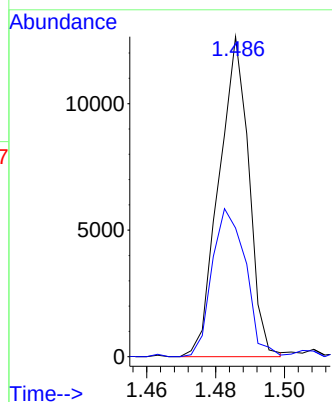
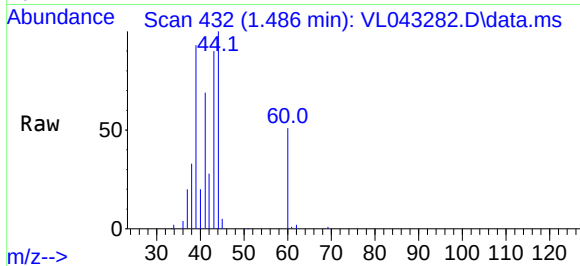
#9
 Propene
 Concen: 1.230 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL043282.D
 Acq: 24 Nov 2025 15:00

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tgt Ion: 41 Resp: 7640
 Ion Ratio Lower Upper
 41 100
 42 55.0 3.7 5.5

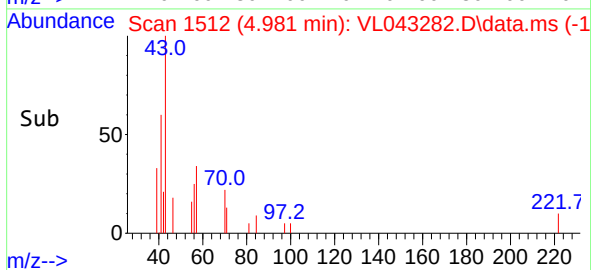
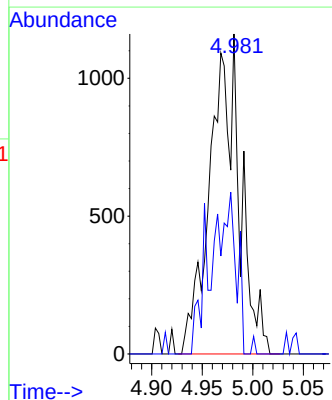
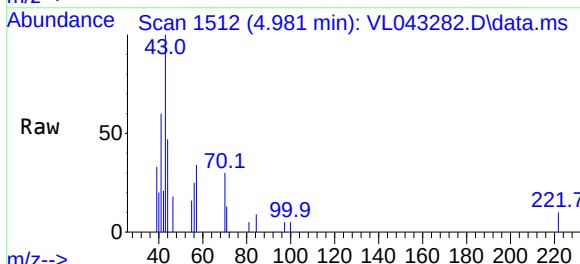
Manual Integrations
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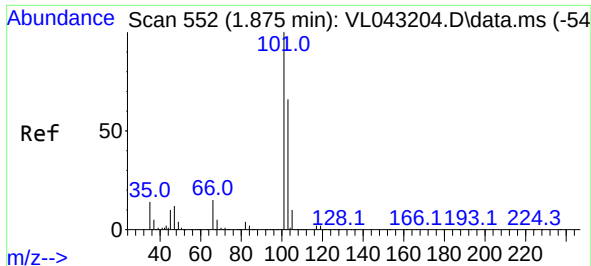
Reviewed By :Semsettin Yesilyurt 11/25/2025
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#10
 Heptane
 Concen: 0.127 ppbv m
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.016 min
 Lab File: VL043282.D
 Acq: 24 Nov 2025 15:00

Tgt Ion: 43 Resp: 2349
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.7 59.5





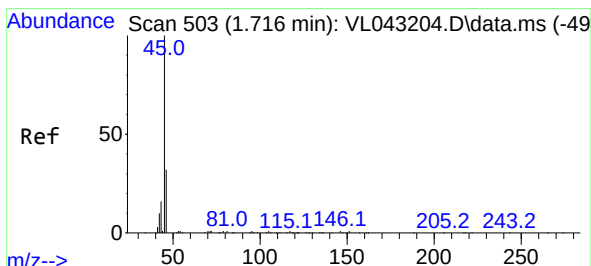
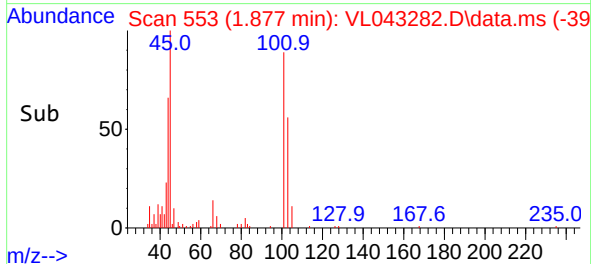
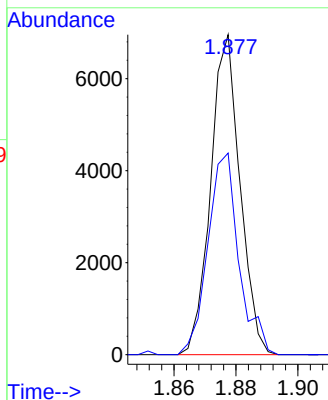
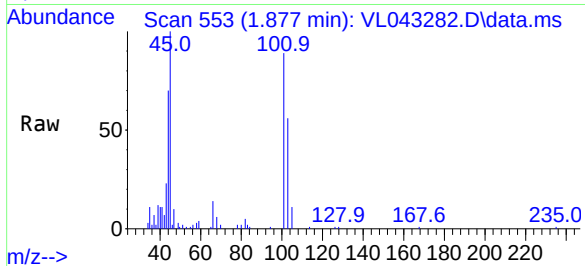
#11
Trichlorofluoromethane
Concen: 0.318 ppbv
RT: 1.877 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion:101 Resp: 4588
Ion Ratio Lower Upper
101 100
103 63.0 52.6 79.0

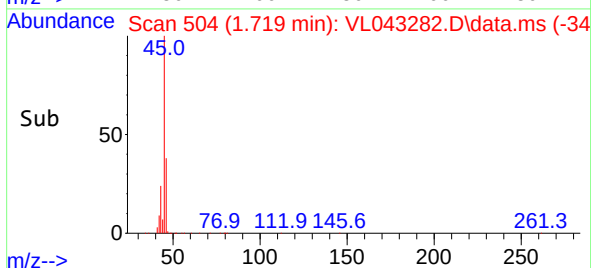
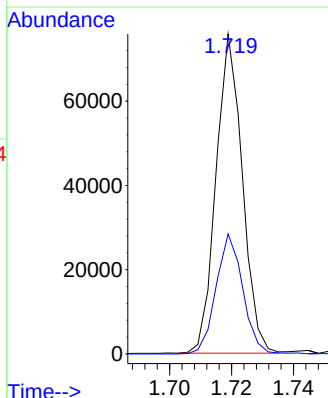
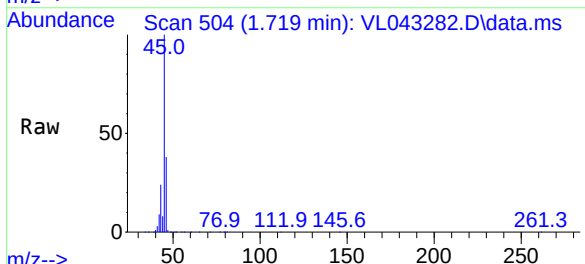
Manual Integrations
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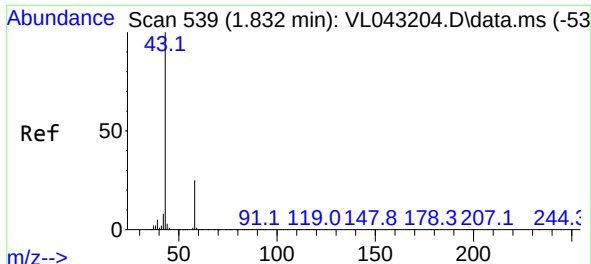
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#13
Ethanol
Concen: 20.454 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

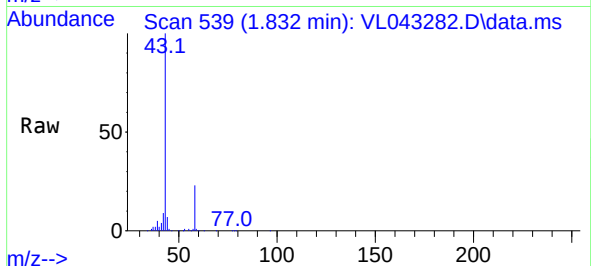
Tgt Ion: 45 Resp: 44714
Ion Ratio Lower Upper
45 100
46 38.4 15.0 59.8





#15
Acetone
Concen: 4.855 ppbv
RT: 1.832 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

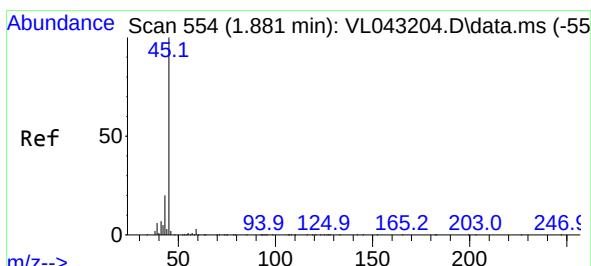
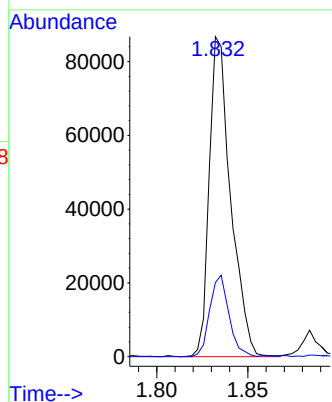
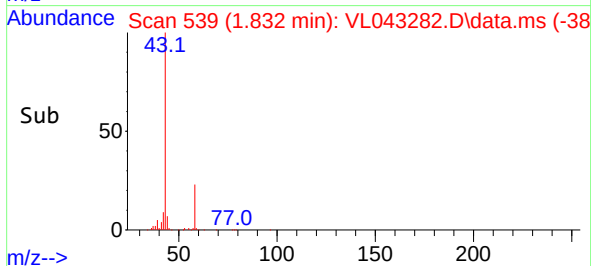
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



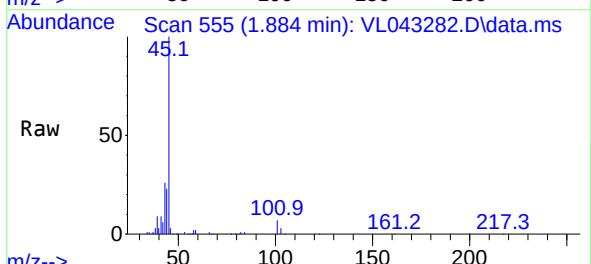
Tgt Ion: 43 Resp: 7120
Ion Ratio Lower Upper
43 100
58 23.1 20.7 31.1

Manual Integrations
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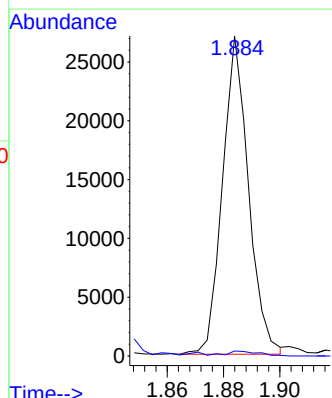
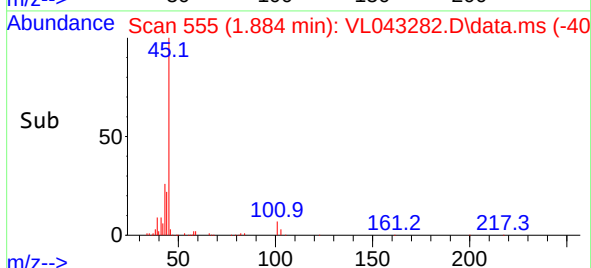
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

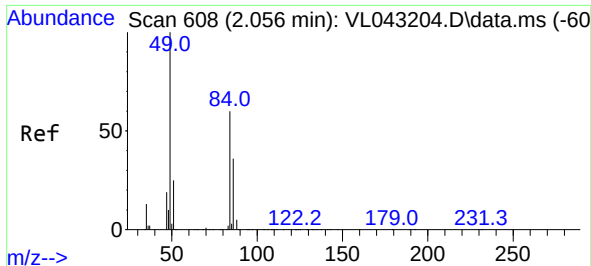


#19
Isopropyl Alcohol
Concen: 2.087 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00



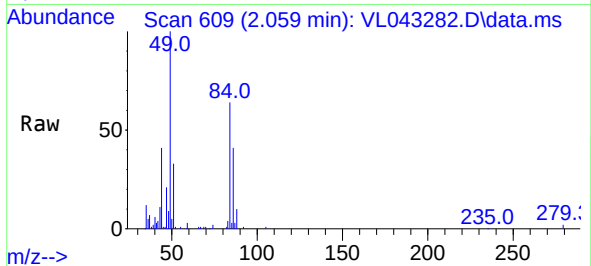
Tgt Ion: 45 Resp: 17297
Ion Ratio Lower Upper
45 100
58 95.2 31.3 46.9#





#20
Methylene Chloride
Concen: 1.045 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

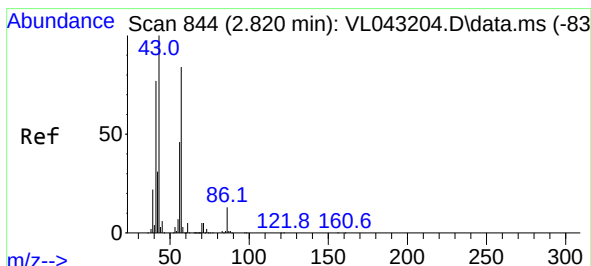
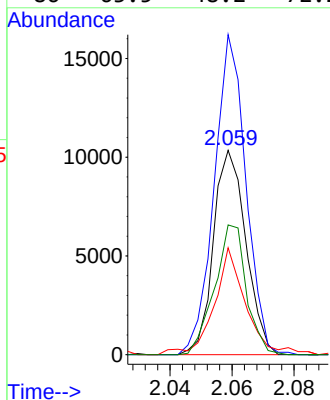
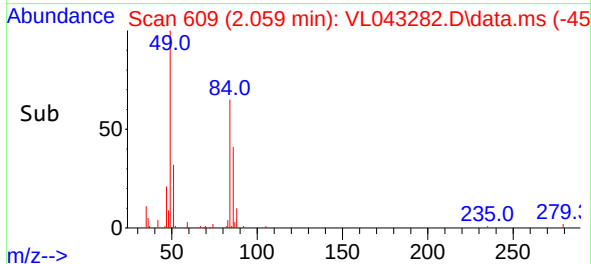


Tgt Ion: 84 Resp: 755

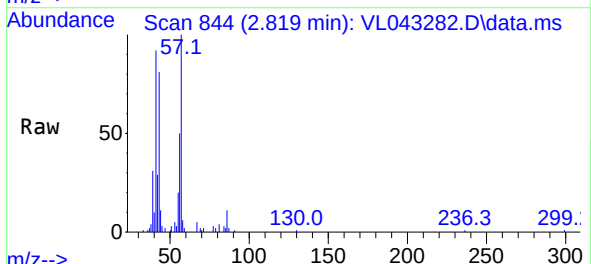
Ion	Ratio	Lower	Upper
84	100		
49	156.6	132.9	199.3
51	49.9	34.8	52.2
86	63.5	48.2	72.2

Manual Integrations
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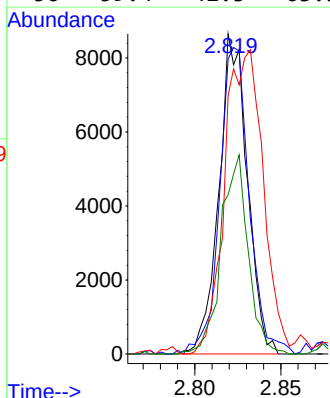
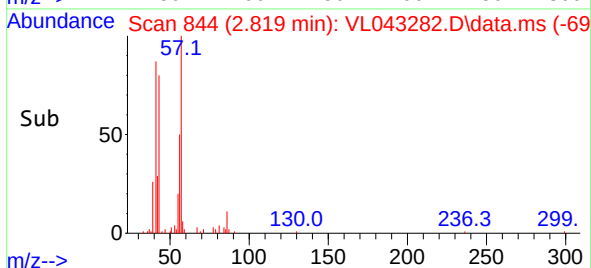


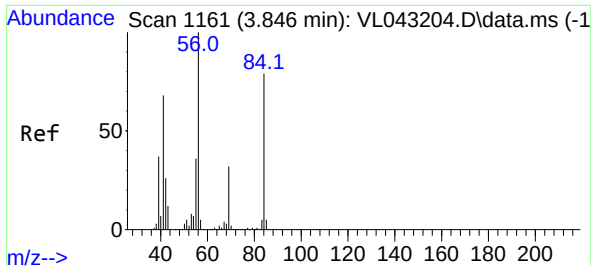
#26
Hexane
Concen: 0.716 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.000 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00



Tgt Ion: 57 Resp: 9933

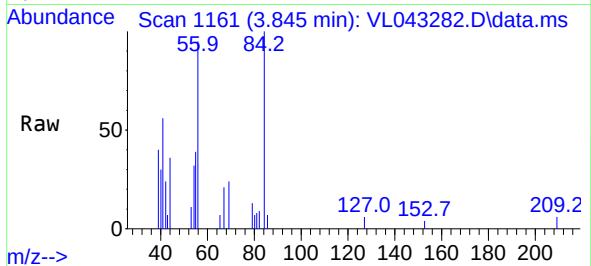
Ion	Ratio	Lower	Upper
57	100		
41	99.8	74.6	111.8
43	135.9	179.0	268.4#
56	59.4	42.3	63.5





#30
Cyclohexane
Concen: 0.143 ppbv m
RT: 3.845 min Scan# 1161
Delta R.T. -0.000 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

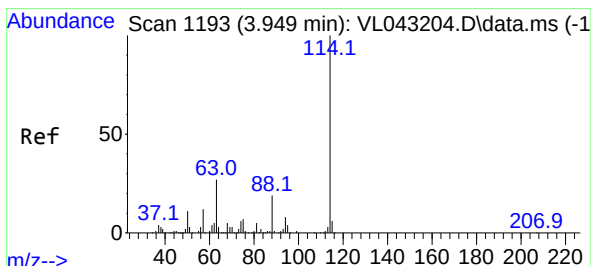
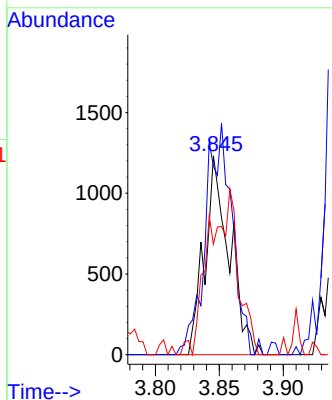
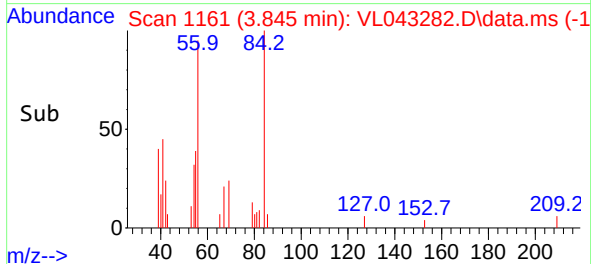
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 84 Resp: 1664
Ion Ratio Lower Upper
84 100
56 124.7 104.7 157.1
41 0.0 69.0 103.6

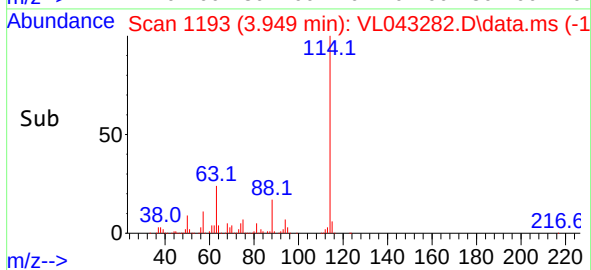
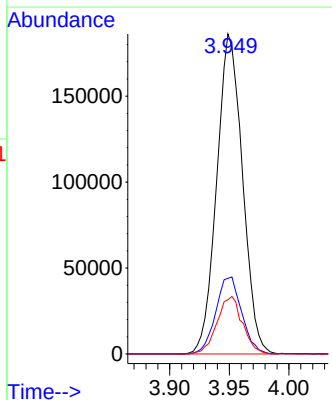
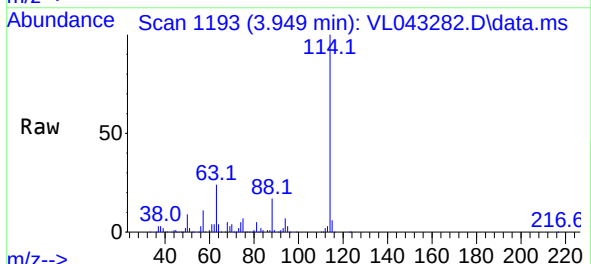
Manual Integrations
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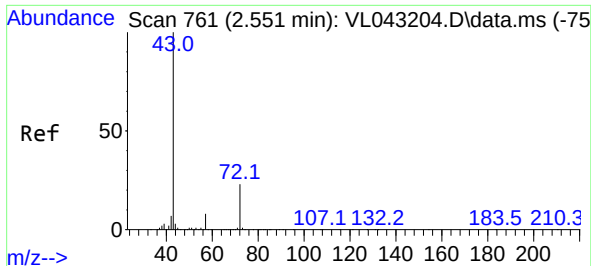
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

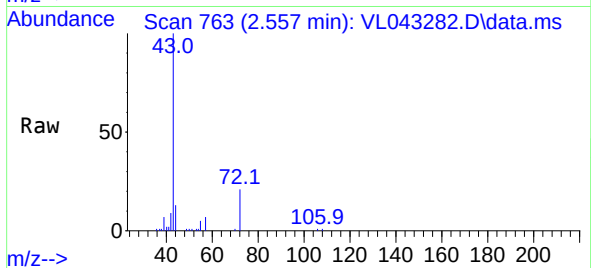
Tgt Ion:114 Resp: 279590
Ion Ratio Lower Upper
114 100
63 24.3 21.0 31.6
88 17.7 14.9 22.3





#34
2-Butanone
Concen: 0.518 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.006 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

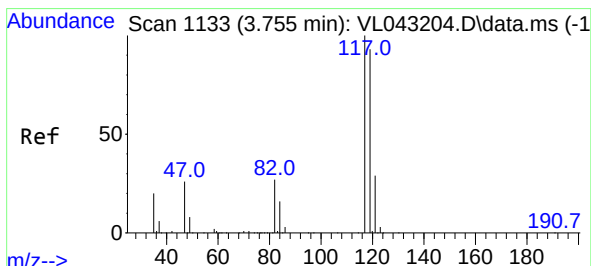
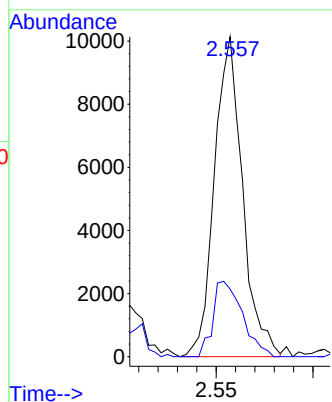
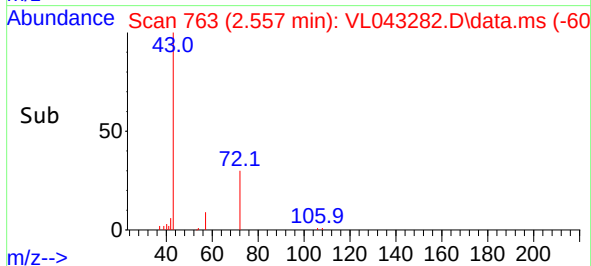
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



Tgt Ion: 43 Resp: 10225
Ion Ratio Lower Upper
43 100
72 24.8 18.1 27.1

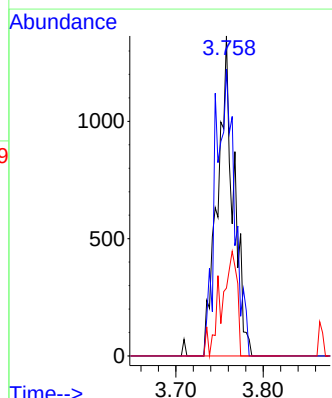
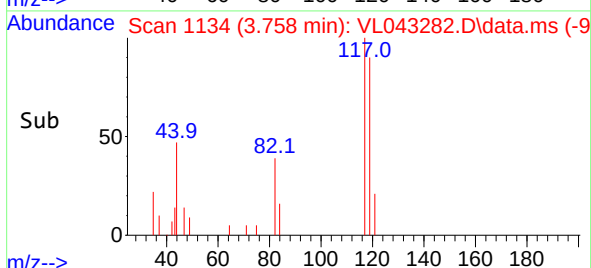
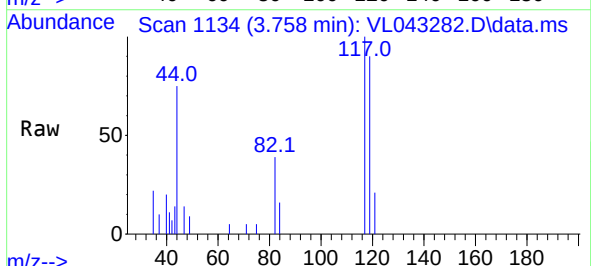
Manual Integrations
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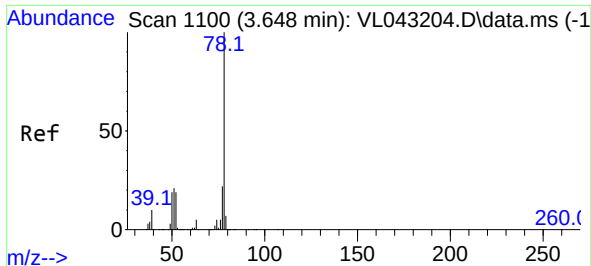
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. 0.003 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

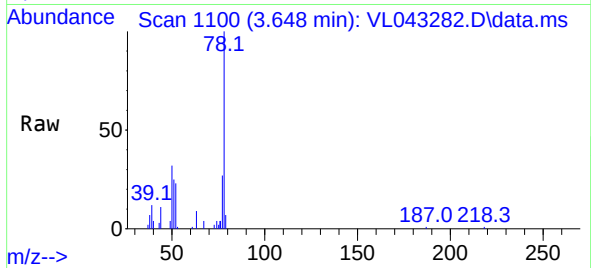
Tgt Ion:117 Resp: 1748
Ion Ratio Lower Upper
117 100
119 89.7 74.6 112.0
121 21.2 23.2 34.8#





#36
Benzene
Concen: 0.350 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

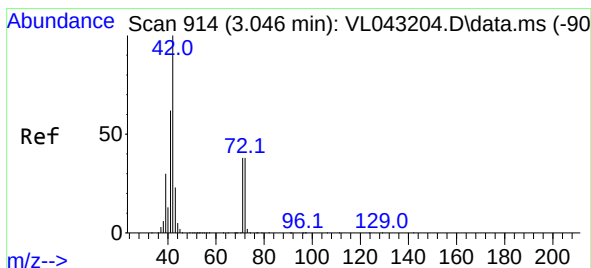
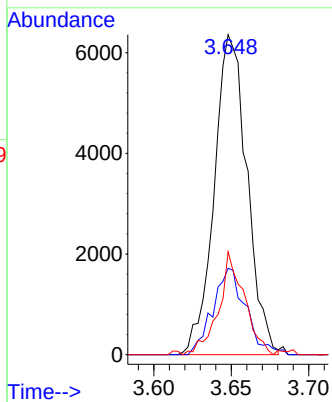
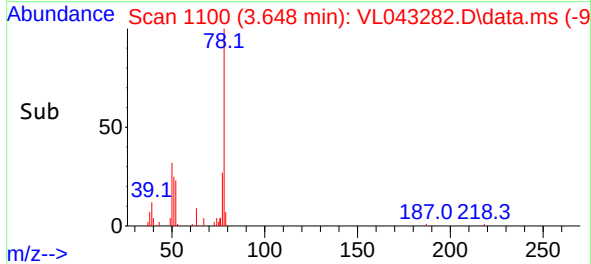
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



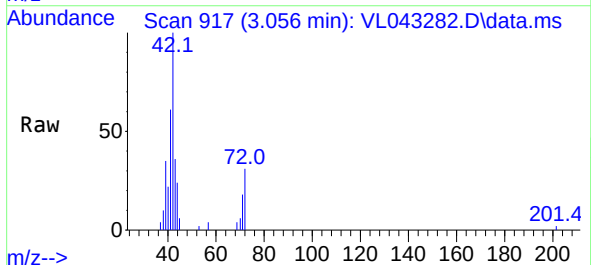
Tgt Ion: 78 Resp: 9375
Ion Ratio Lower Upper
78 100
77 27.0 17.5 26.3
50 31.1 15.5 23.3

Manual Integrations
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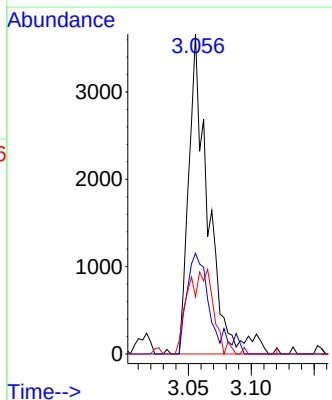
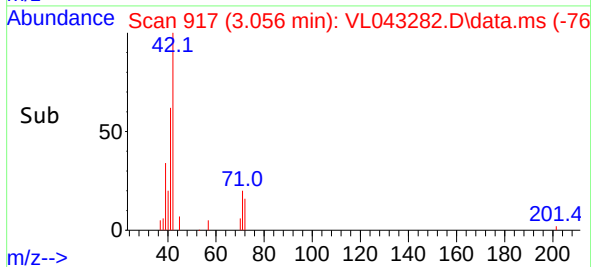
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

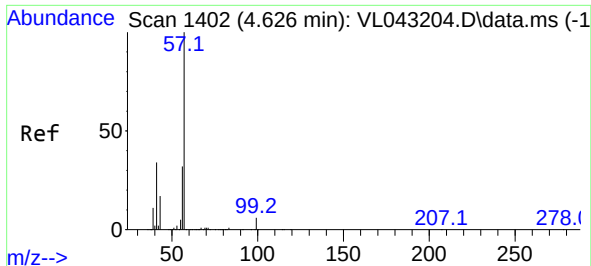


#41
Tetrahydrofuran
Concen: 0.365 ppbv m
RT: 3.056 min Scan# 917
Delta R.T. 0.009 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00



Tgt Ion: 42 Resp: 3975
Ion Ratio Lower Upper
42 100
72 0.0 30.6 46.0#
71 0.0 30.5 45.7#





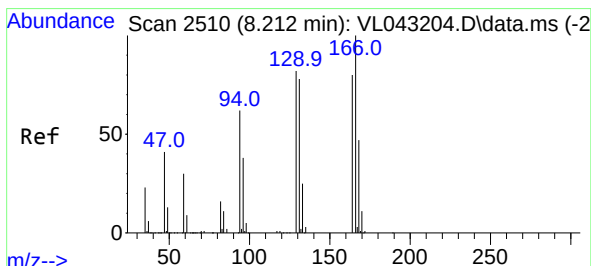
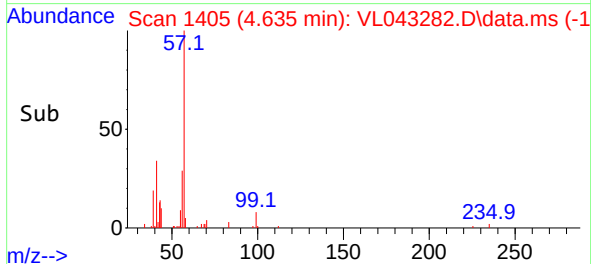
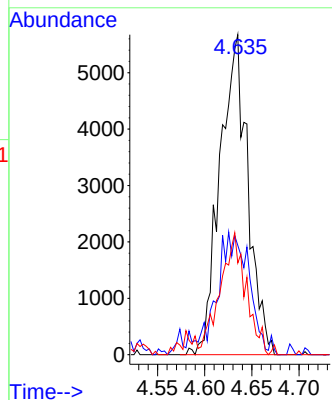
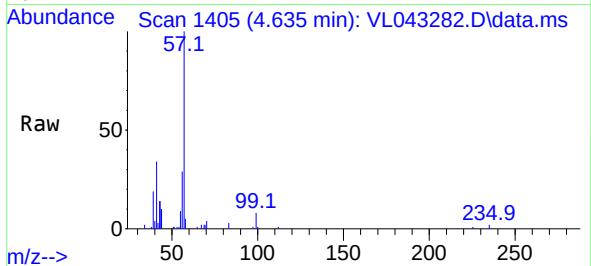
#44
2,2,4-Trimethylpentane
Concen: 0.253 ppbv m
RT: 4.635 min Scan# 1405
Delta R.T. 0.009 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 57 Resp: 1164
Ion Ratio Lower Upper
57 100
41 44.6 28.0 42.0
56 39.3 25.6 38.4

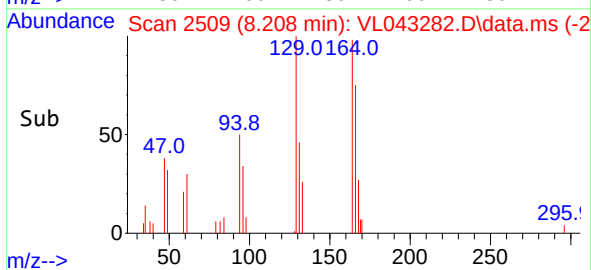
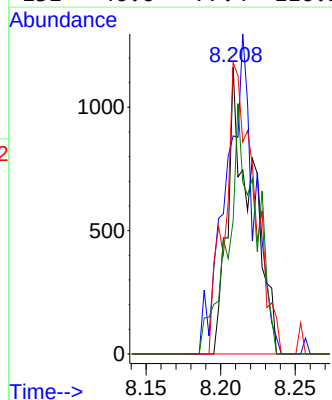
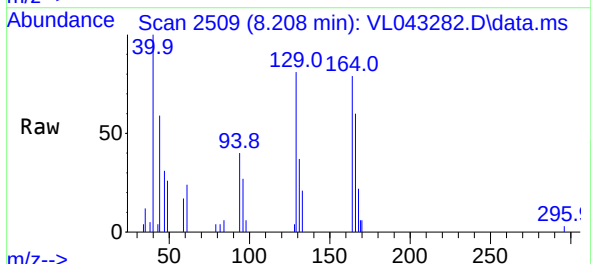
Manual Integrations
APPROVED

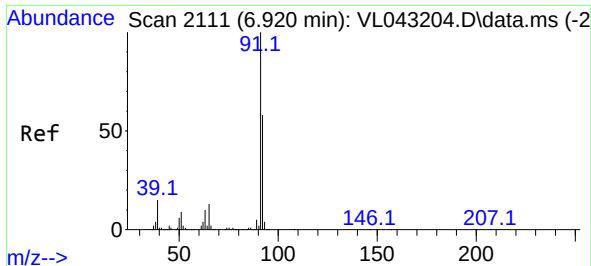
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#52
Tetrachloroethene
Concen: 0.132 ppbv m
RT: 8.208 min Scan# 2509
Delta R.T. -0.004 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

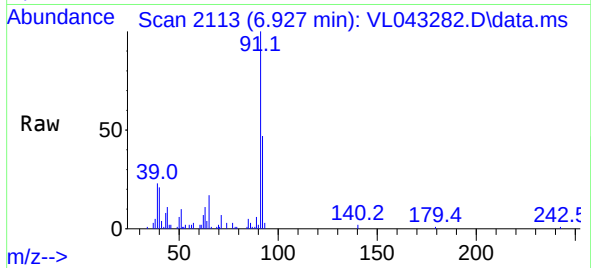
Tgt Ion:164 Resp: 1312
Ion Ratio Lower Upper
164 100
166 76.1 99.4 149.2#
129 101.6 81.8 122.8
131 46.6 77.4 116.2#





#53
Toluene
Concen: 0.473 ppbv m
RT: 6.927 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

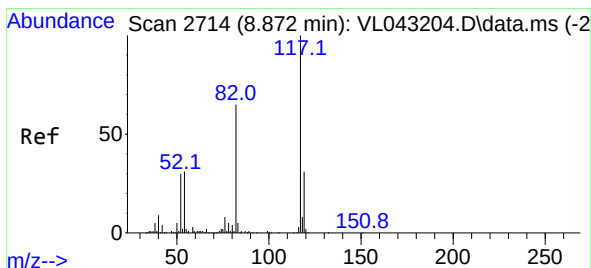
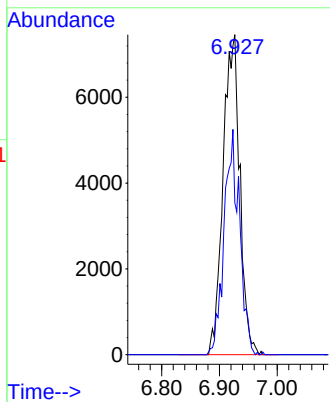
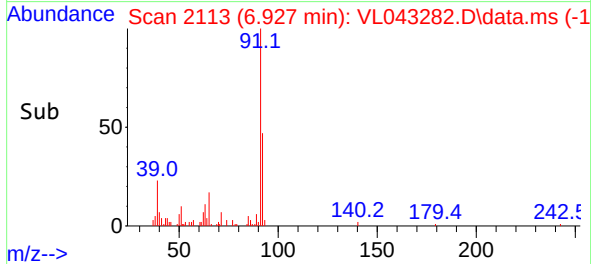
Instrument :
MSVOA_L
ClientSampleId :
IA1DUP



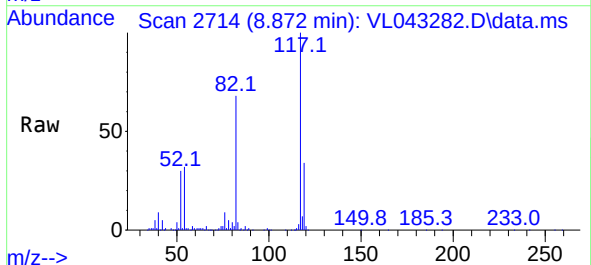
Tgt Ion: 91 Resp: 1498
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0

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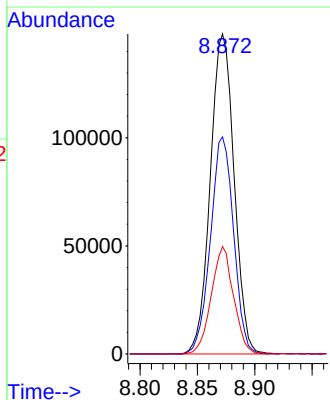
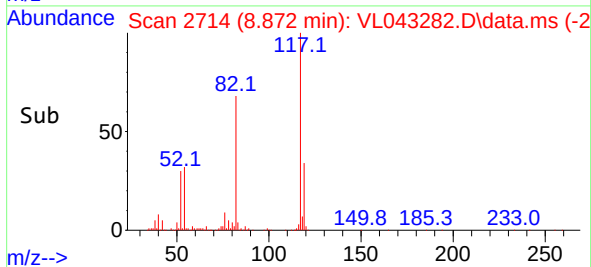
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025

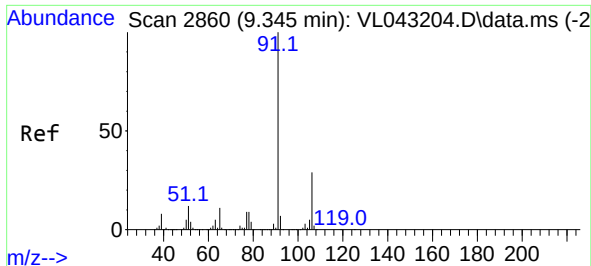


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.000 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00



Tgt Ion:117 Resp: 213658
Ion Ratio Lower Upper
117 100
82 65.9 56.1 84.1
119 31.5 25.0 37.6





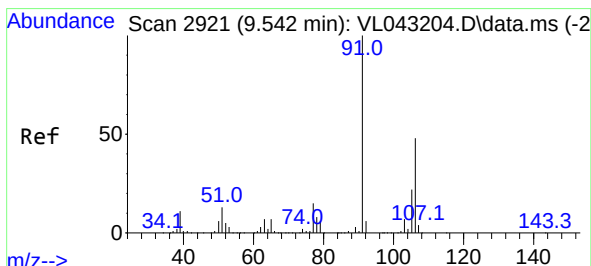
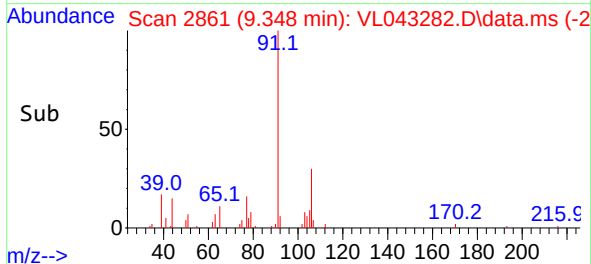
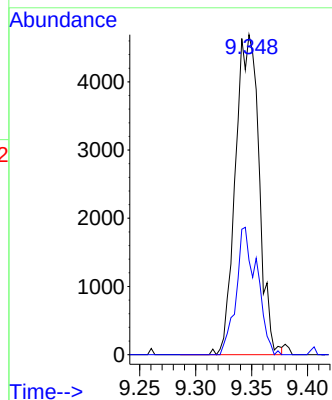
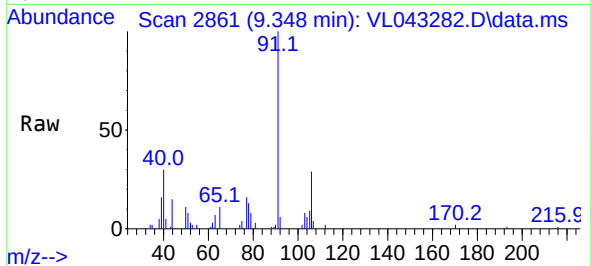
#58
Ethyl Benzene
Concen: 0.167 ppbv m
RT: 9.348 min Scan# 2860
Delta R.T. 0.003 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 6880
Ion Ratio Lower Upper
91 100
106 29.5 22.8 34.2

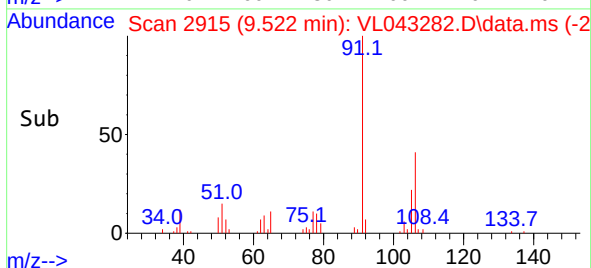
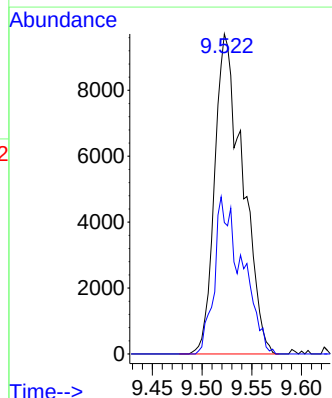
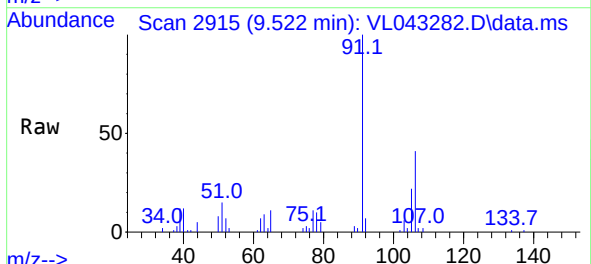
Manual Integrations
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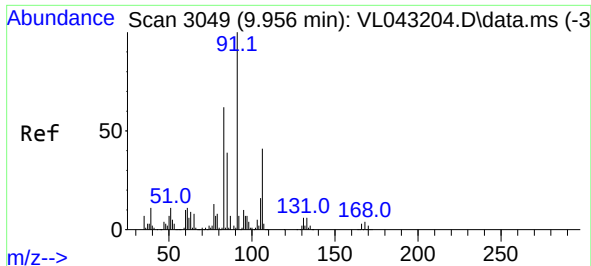
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#59
m/p-Xylene
Concen: 0.576 ppbv m
RT: 9.522 min Scan# 2915
Delta R.T. -0.020 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

Tgt Ion: 91 Resp: 18983
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#





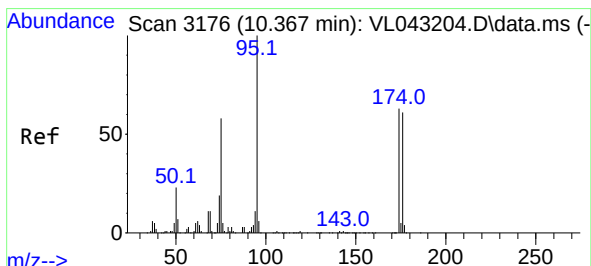
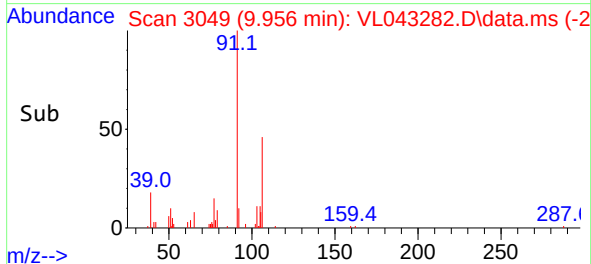
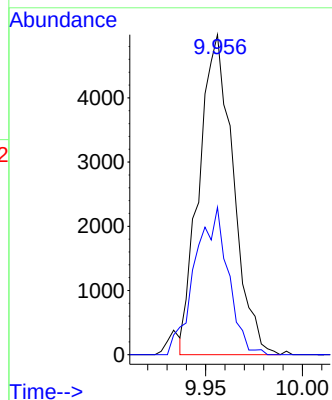
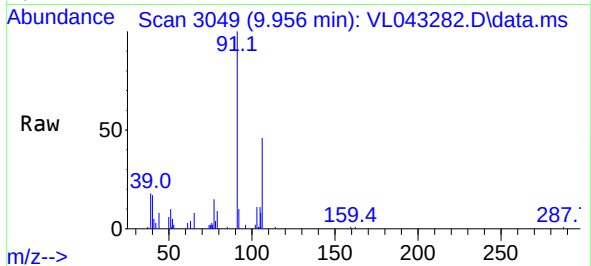
#60
o-Xylene
Concen: 0.185 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.000 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tgt Ion: 91 Resp: 6100
Ion Ratio Lower Upper
91 100
106 45.0 20.9 62.8

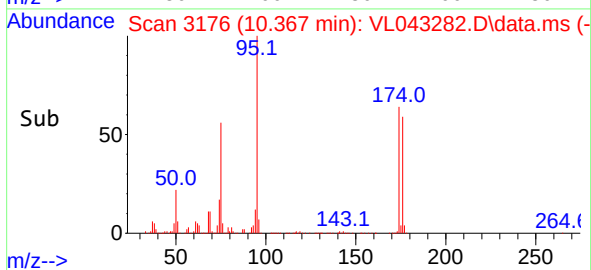
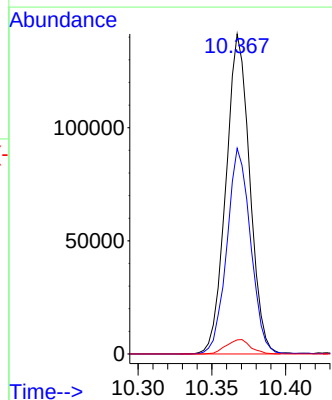
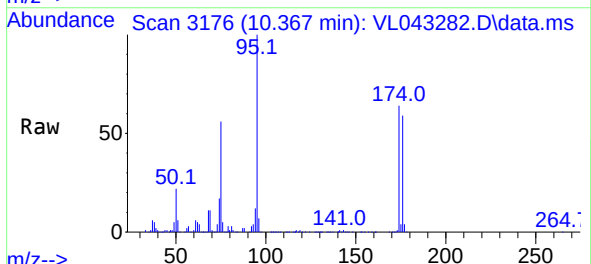
Manual Integrations
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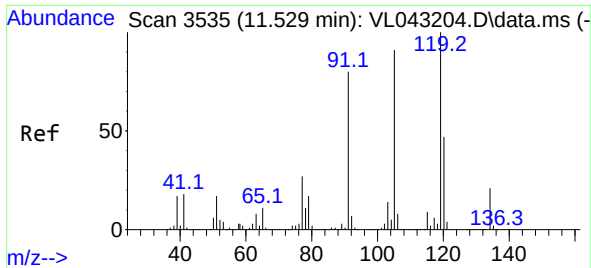
Reviewed By :Semsettin Yesilyurt 11/25/2025
Supervised By :Mahesh Dadoda 11/25/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.123 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043282.D
Acq: 24 Nov 2025 15:00

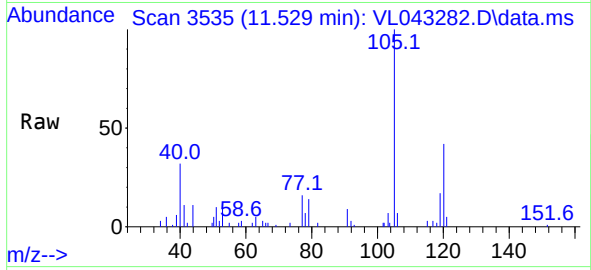
Tgt Ion: 95 Resp: 158544
Ion Ratio Lower Upper
95 100
174 64.4 50.2 75.2
175 4.6 4.1 6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.114 ppbv
 RT: 11.529 min Scan# 3535
 Delta R.T. -0.000 min
 Lab File: VL043282.D
 Acq: 24 Nov 2025 15:00

Instrument : MSVOA_L
 ClientSampleId : IA1DUP



Tgt Ion:	105	Resp:	4200
Ion	Ratio	Lower	Upper
105	100		
120	41.8	41.7	62.5
91	9.4	70.0	105.0
77	16.4	23.8	35.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/25/2025
 Supervised By :Mahesh Dadoda 11/25/2025

