

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043272.D
 Acq On : 20 Nov 2025 19:11
 Operator : SY/MD
 Sample : Q3698-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

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

Quant Time: Nov 21 00:42:43 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	106259	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	280780	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	229748	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.373	95	176043	10.453	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1785	0.119	ppbv	93
4) Chloromethane	1.534	50	834	0.149	ppbv #	72
9) Propene	1.489	41	108355	17.312	ppbv #	1
10) Heptane	4.978	43	10437m	0.560	ppbv	
13) Ethanol	1.722	45	10671	4.849	ppbv #	38
15) Acetone	1.835	43	1071340	72.570	ppbv	98
17) tert-Butyl alcohol	2.039	59	3455	0.178	ppbv #	86
20) Methylene Chloride	2.062	84	28320	6.213	ppbv	90
26) Hexane	2.826	57	33415	2.394	ppbv #	43
27) Carbon Disulfide	2.152	76	8058	0.565	ppbv #	67
30) Cyclohexane	3.861	84	2144m	0.183	ppbv	
34) 2-Butanone	2.557	43	30428	1.535	ppbv	99
35) Carbon Tetrachloride	3.768	117	643m	0.030	ppbv	
36) Benzene	3.654	78	24074	0.895	ppbv	97
38) Trichloroethene	4.544	130	21634	2.056	ppbv #	94
40) 1,4-Dioxane	4.586	88	4177m	0.944	ppbv	
43) Methyl Methacrylate	4.884	69	7481m	0.524	ppbv	
50) 4-Methyl-2-Pentanone	5.771	43	4386m	0.157	ppbv	
51) 2-Hexanone	7.425	43	15601m	0.720	ppbv	
52) Tetrachloroethene	8.224	164	457	0.046	ppbv	92
53) Toluene	6.930	91	54011	1.696	ppbv	100
58) Ethyl Benzene	9.351	91	90252	2.041	ppbv	100
59) m/p-Xylene	9.529	91	335030	9.450	ppbv	99
60) o-Xylene	9.959	91	107179	3.026	ppbv	100
74) 1,2,4-Trimethylbenzene	11.535	105	8313	0.210	ppbv #	50

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

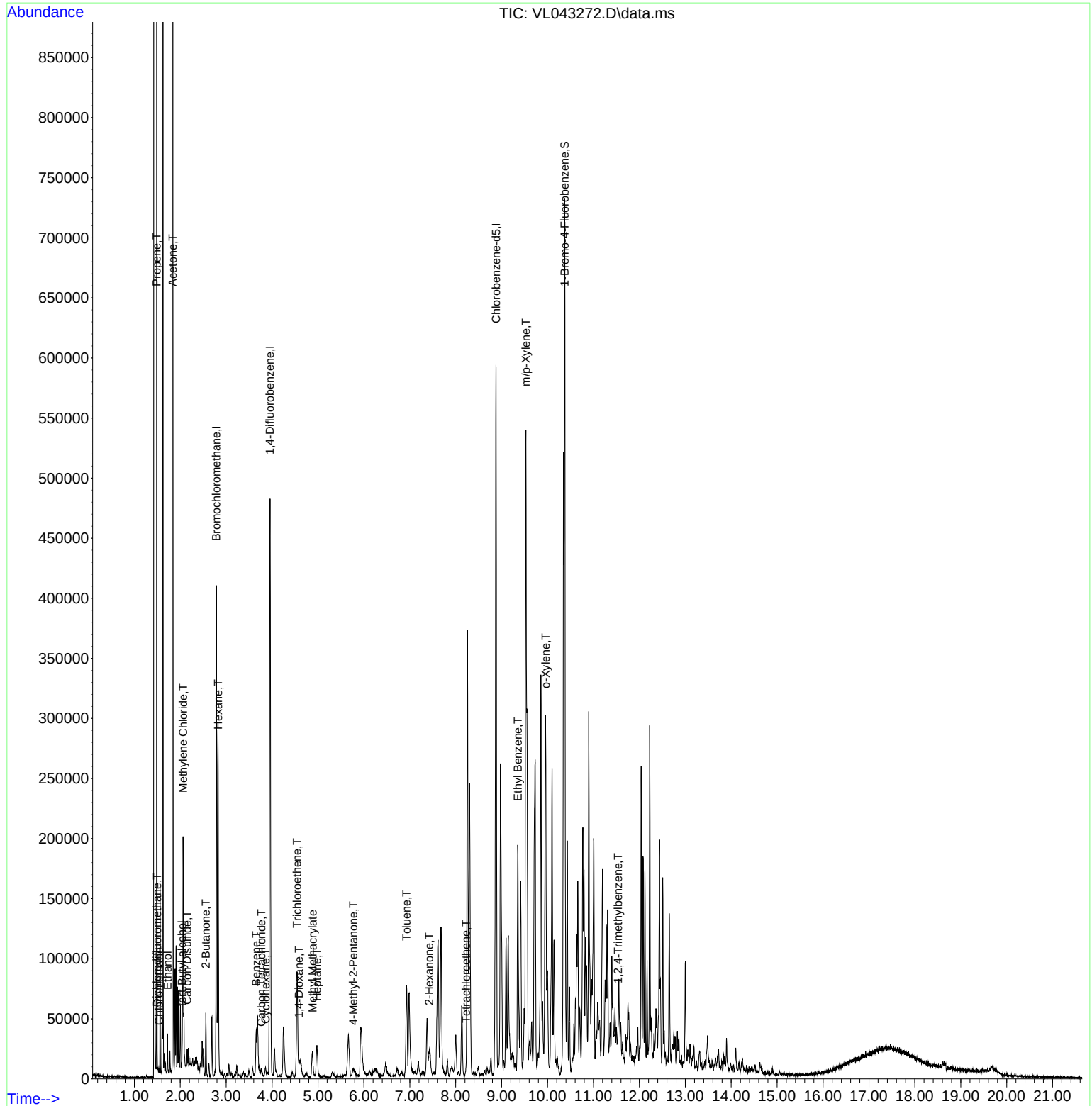
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043272.D
Acq On : 20 Nov 2025 19:11
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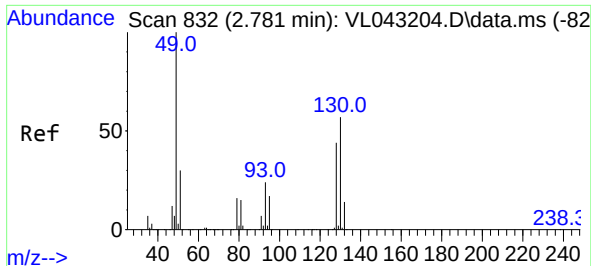
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Nov 21 00:42:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.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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Supervised By : Mahesh Dadoda 11/21/2025





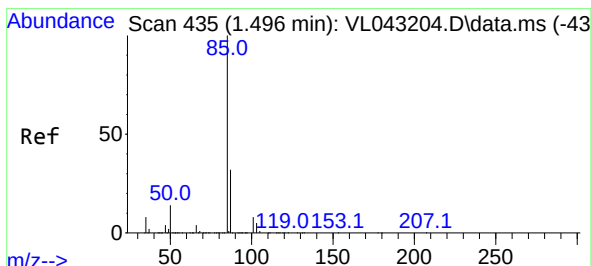
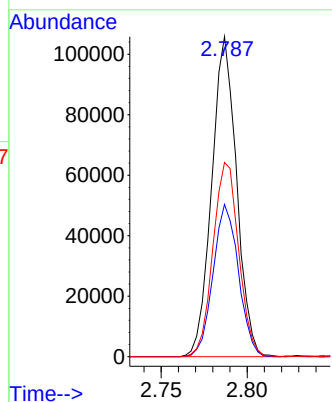
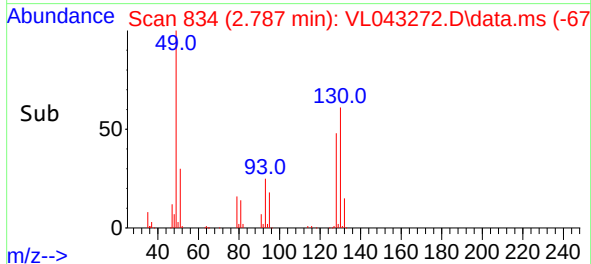
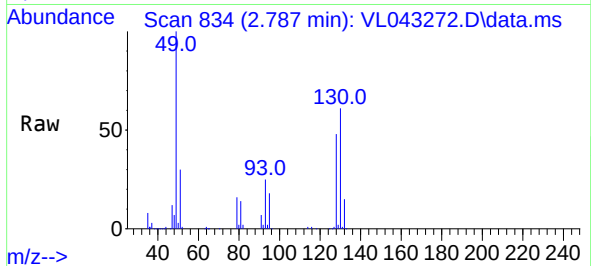
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 10625
Ion Ratio Lower Upper
49 100
128 48.6 23.0 69.0
130 62.8 29.9 89.7

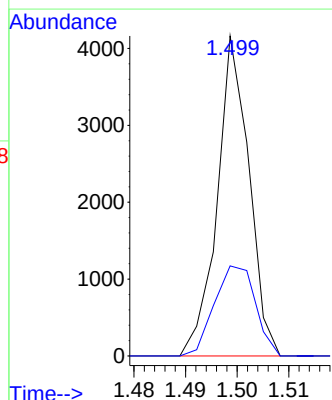
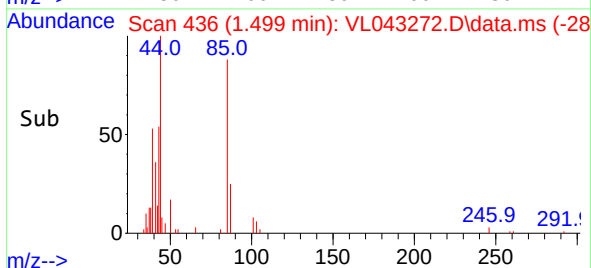
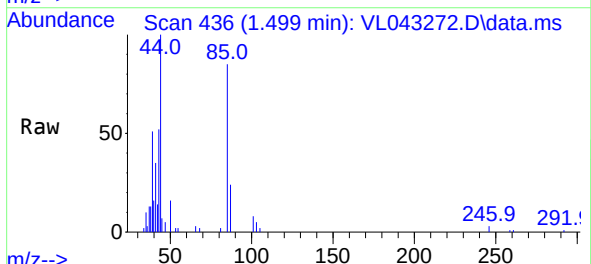
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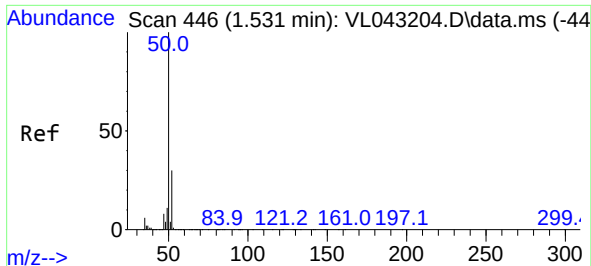
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#2
Dichlorodifluoromethane
Concen: 0.119 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

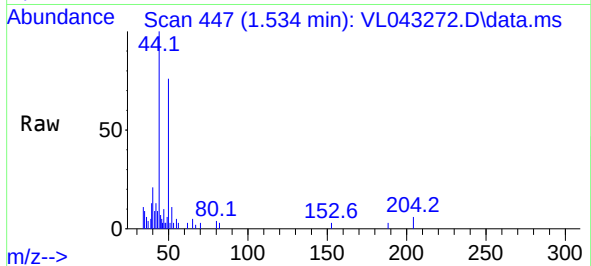
Tgt Ion: 85 Resp: 1785
Ion Ratio Lower Upper
85 100
87 28.1 25.4 38.2





#4
Chloromethane
Concen: 0.149 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

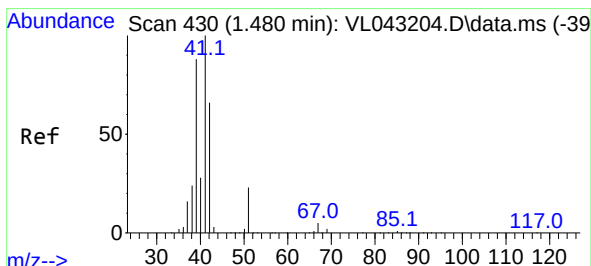
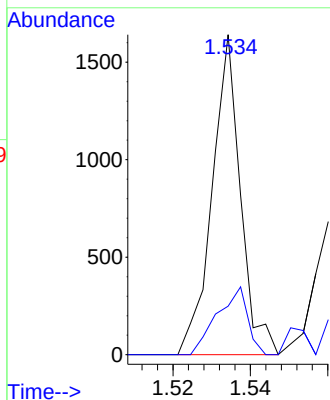
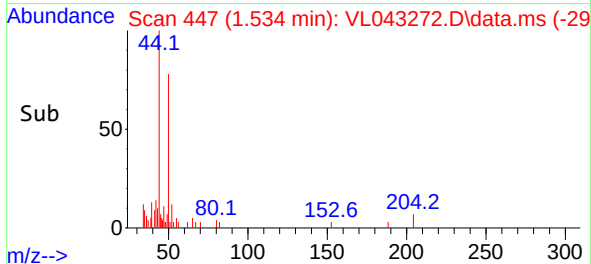
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 50 Resp: 834
Ion Ratio Lower Upper
50 100
52 15.2 24.1 36.1

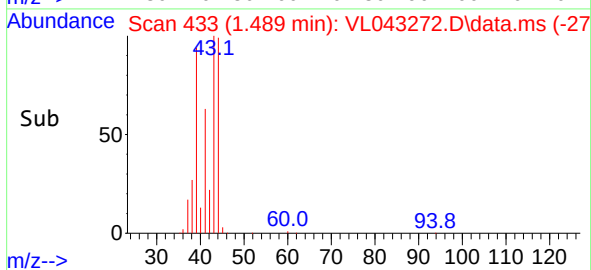
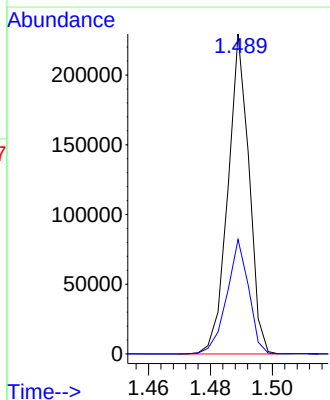
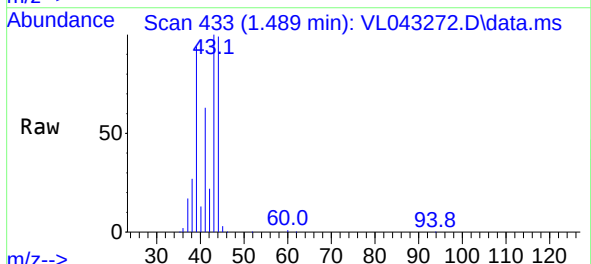
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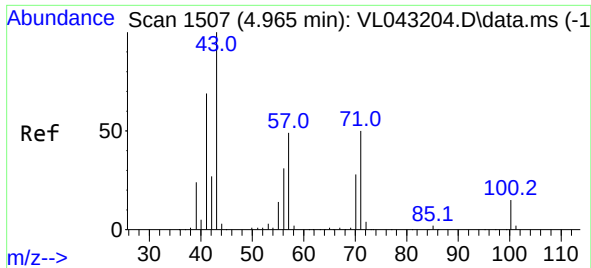
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#9
Propene
Concen: 17.312 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.009 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

Tgt Ion: 41 Resp: 108355
Ion Ratio Lower Upper
41 100
42 37.5 3.7 5.5





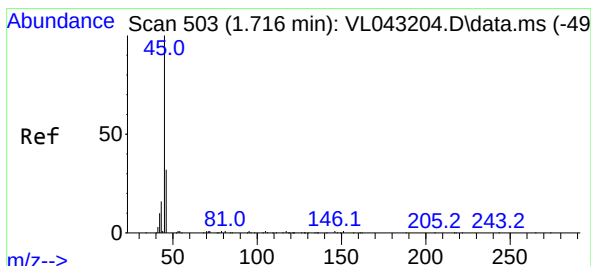
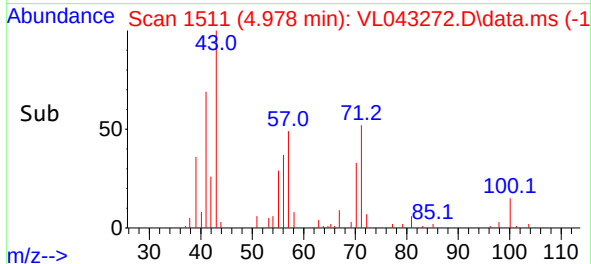
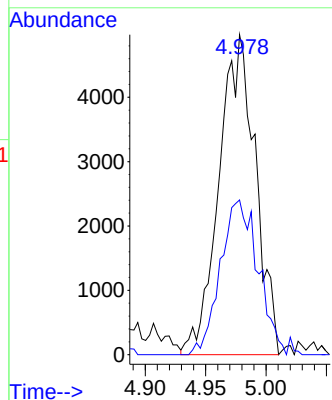
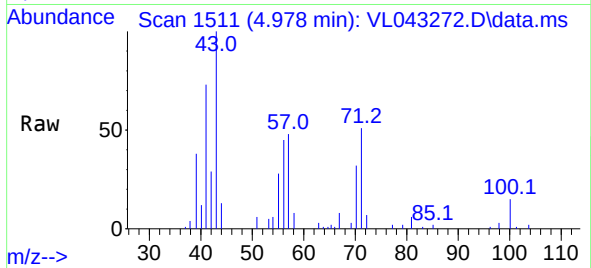
#10
Heptane
Concen: 0.560 ppbv m
RT: 4.978 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 1043
Ion Ratio Lower Upper
43 100
57 50.6 39.7 59.5

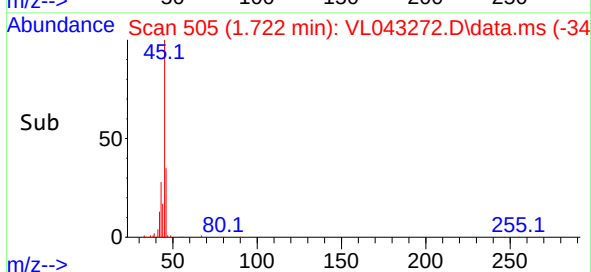
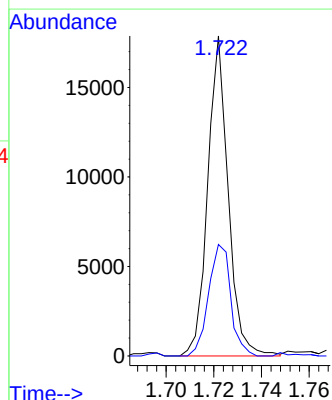
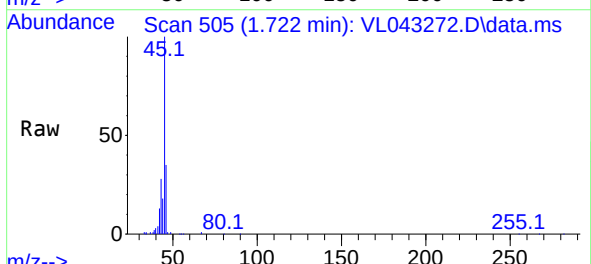
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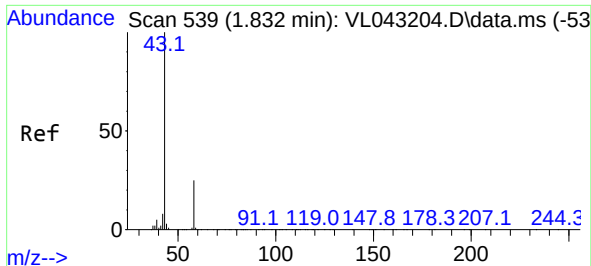
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#13
Ethanol
Concen: 4.849 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

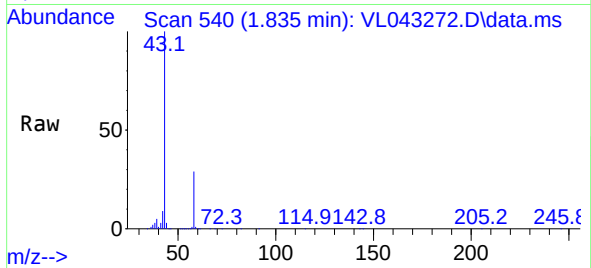
Tgt Ion: 45 Resp: 10671
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8#





#15
Acetone
Concen: 72.570 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

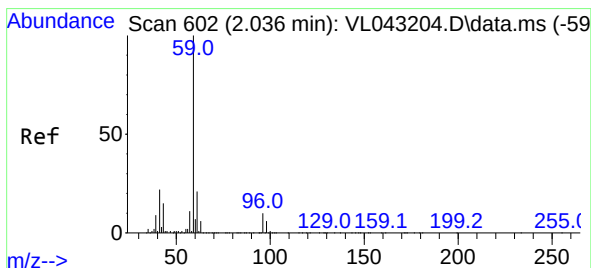
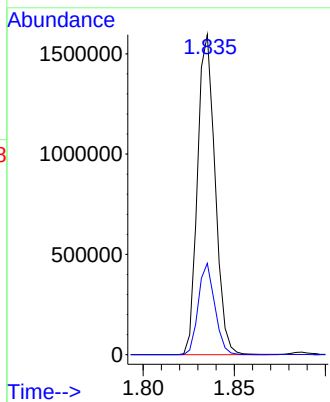
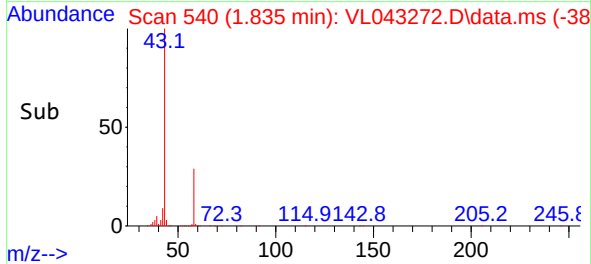
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 1071340
Ion Ratio Lower Upper
43 100
58 26.8 20.7 31.1

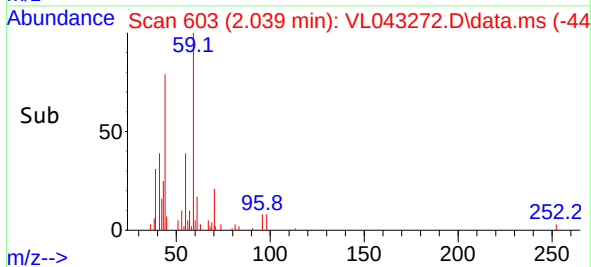
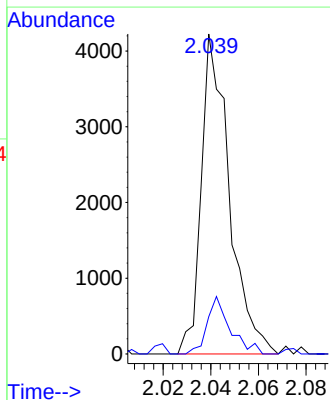
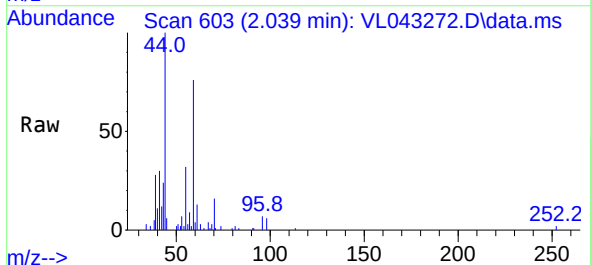
Manual Integrations
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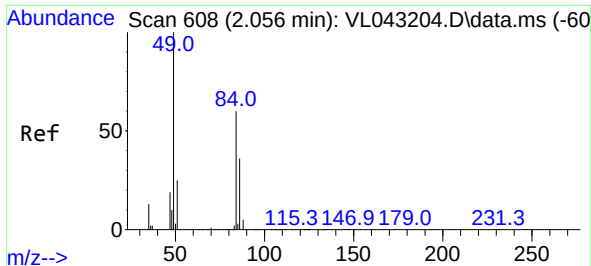
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#17
tert-Butyl alcohol
Concen: 0.178 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

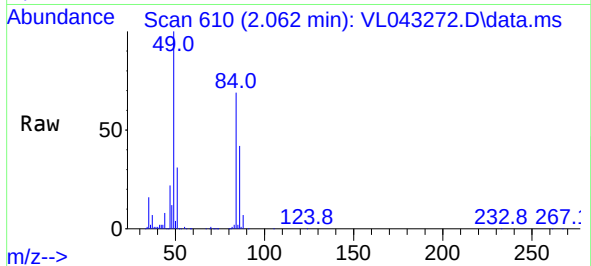
Tgt Ion: 59 Resp: 3455
Ion Ratio Lower Upper
59 100
57 16.7 9.0 13.4#





#20
Methylene Chloride
Concen: 6.213 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

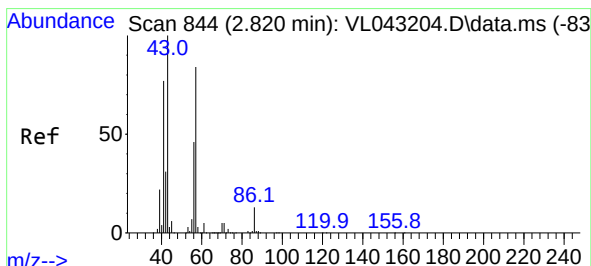
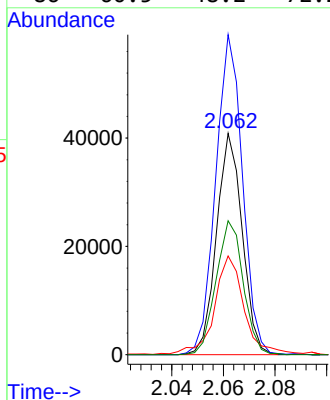
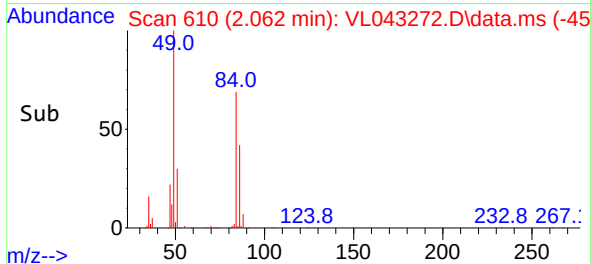
Instrument :
MSVOA_L
ClientSampleId :
SV1



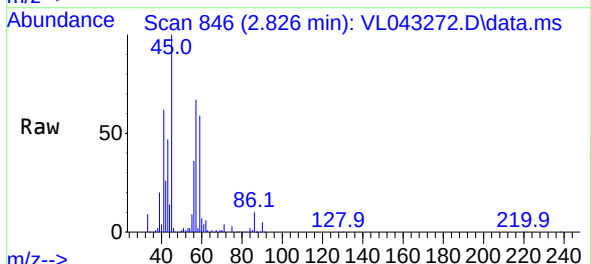
Tgt Ion: 84 Resp: 28320
Ion Ratio Lower Upper
84 100
49 144.0 132.9 199.3
51 43.2 34.8 52.2
86 60.5 48.2 72.2

Manual Integrations
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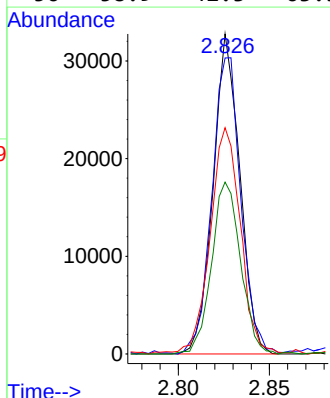
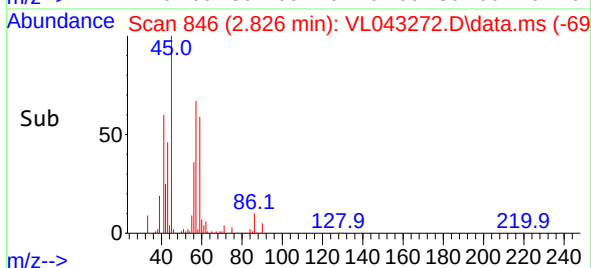
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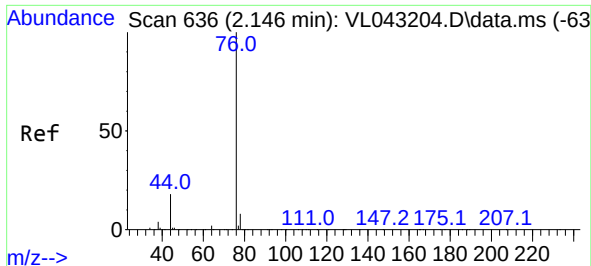


#26
Hexane
Concen: 2.394 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11



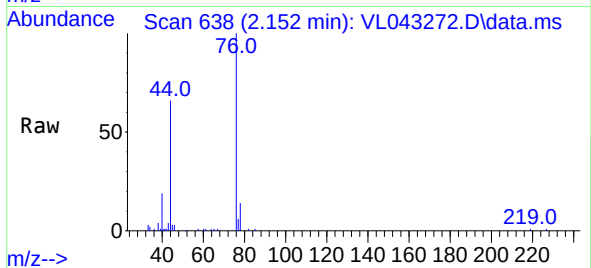
Tgt Ion: 57 Resp: 33415
Ion Ratio Lower Upper
57 100
41 99.8 74.6 111.8
43 79.7 179.0 268.4#
56 58.9 42.3 63.5





#27
Carbon Disulfide
Concen: 0.565 ppbv
RT: 2.152 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

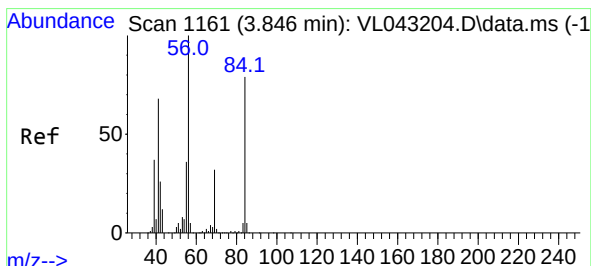
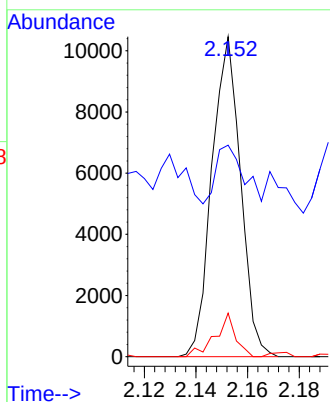
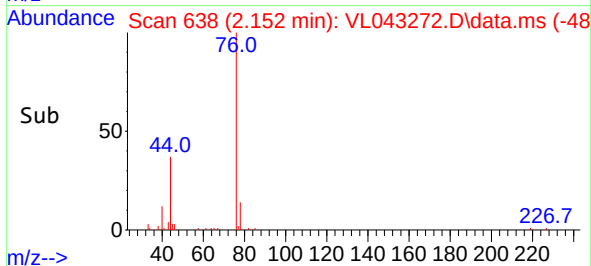
Instrument :
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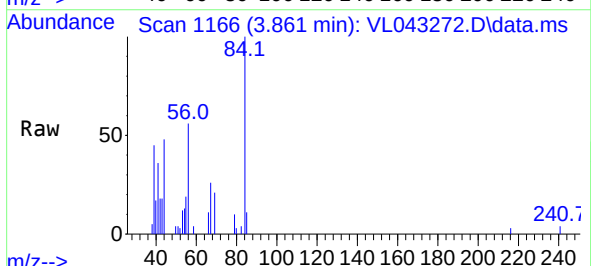
Tgt Ion: 76 Resp: 8058
Ion Ratio Lower Upper
76 100
44 43.6 16.1 24.1#
78 11.0 9.6 14.4

Manual Integrations
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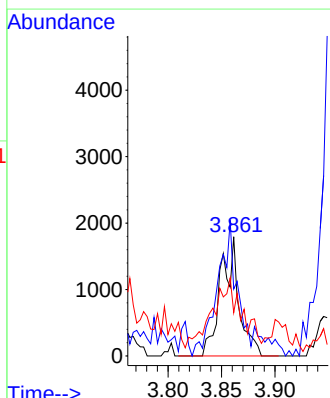
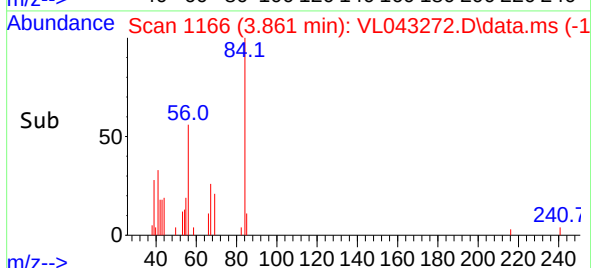
Reviewed By :Semsettin Yesilyurt 11/21/2025
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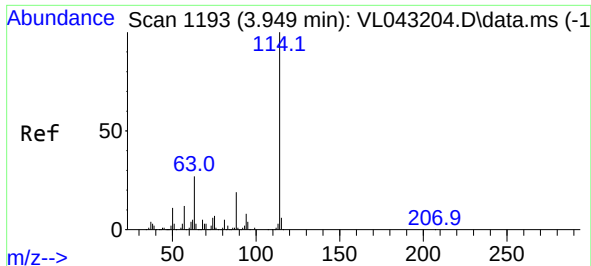


#30
Cyclohexane
Concen: 0.183 ppbv m
RT: 3.861 min Scan# 1166
Delta R.T. 0.016 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11



Tgt Ion: 84 Resp: 2144
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1#
41 0.0 69.0 103.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VL043272.D

Acq: 20 Nov 2025 19:11

Instrument :

MSVOA_L

ClientSampleId :

SV1

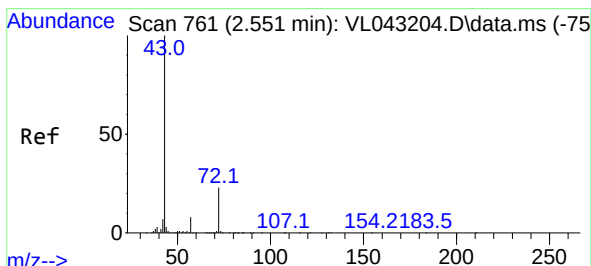
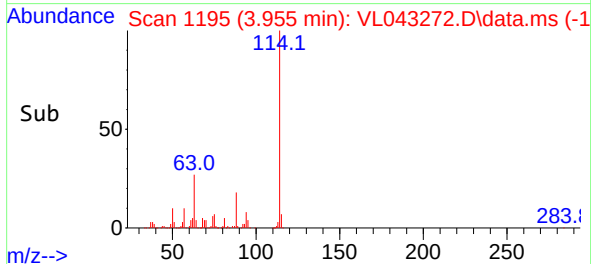
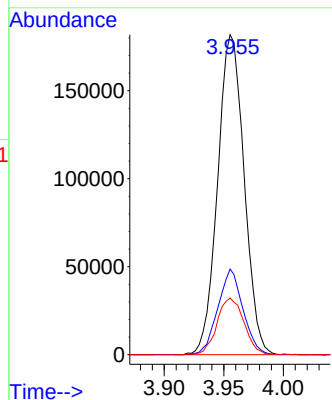
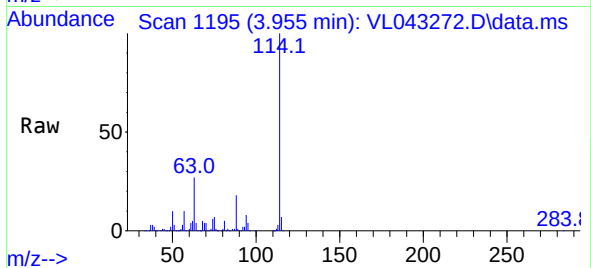
Tgt Ion:114 Resp: 280780

Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.0	31.6
88	18.0	14.9	22.3

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#34

2-Butanone

Concen: 1.535 ppbv

RT: 2.557 min Scan# 763

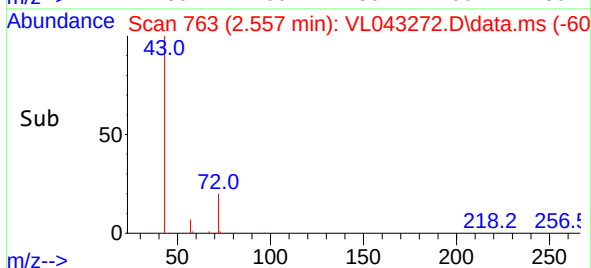
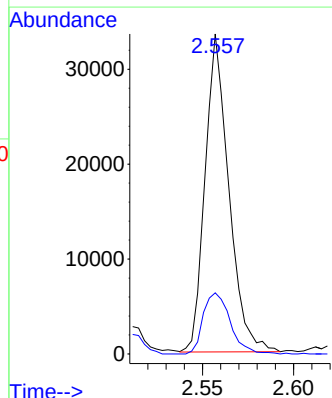
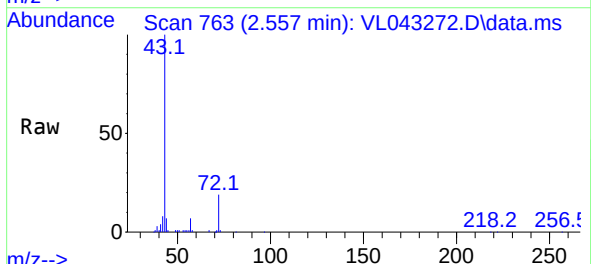
Delta R.T. 0.006 min

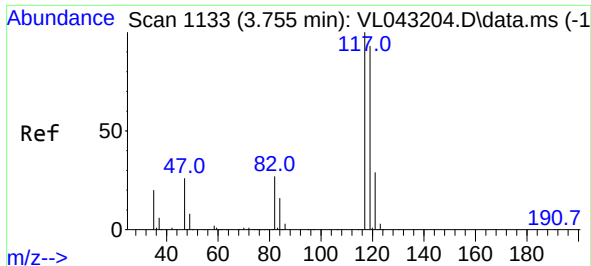
Lab File: VL043272.D

Acq: 20 Nov 2025 19:11

Tgt Ion: 43 Resp: 30428

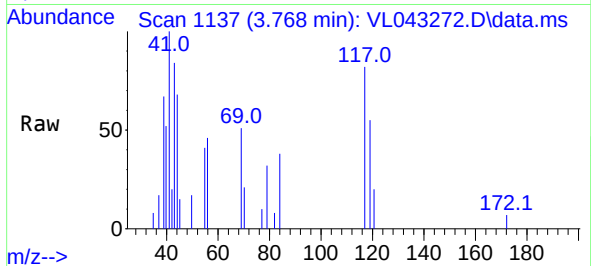
Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.1	27.1





#35
Carbon Tetrachloride
Concen: 0.030 ppbv m
RT: 3.768 min Scan# 1133
Delta R.T. 0.013 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

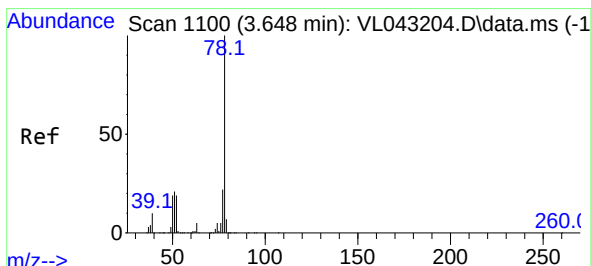
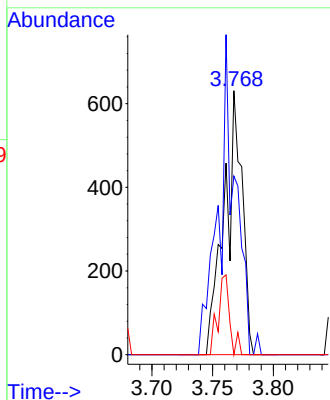
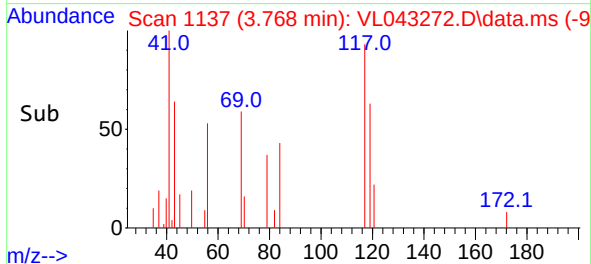
Instrument :
MSVOA_L
ClientSampleId :
SV1



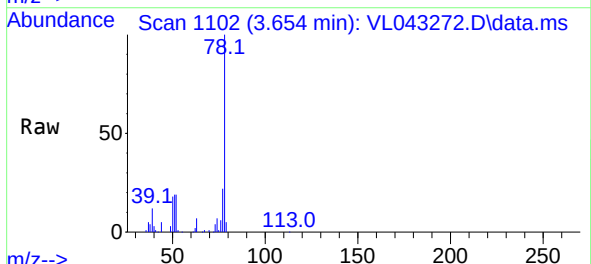
Tgt Ion:117 Resp: 64
Ion Ratio Lower Upper
117 100
119 67.7 74.6 112.0
121 0.0 23.2 34.8

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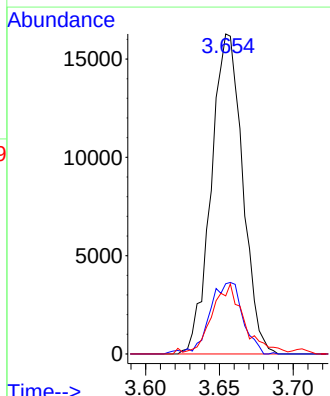
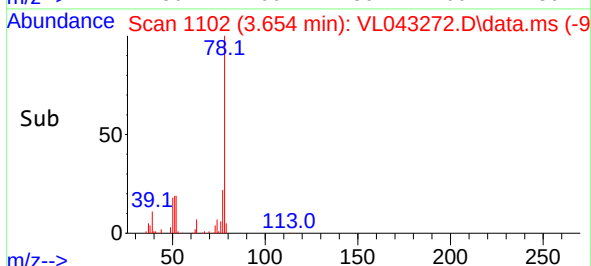
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

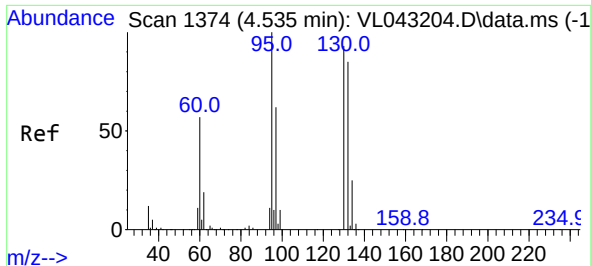


#36
Benzene
Concen: 0.895 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.006 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11



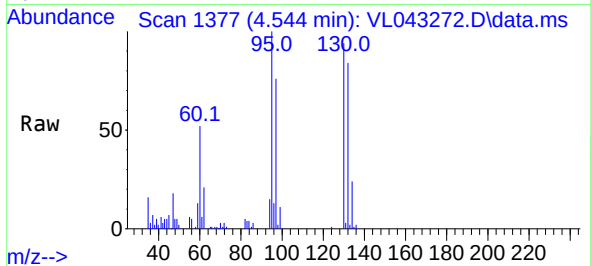
Tgt Ion: 78 Resp: 24074
Ion Ratio Lower Upper
78 100
77 21.9 17.5 26.3
50 16.4 15.5 23.3





#38
 Trichloroethene
 Concen: 2.056 ppbv
 RT: 4.544 min Scan# 11
 Delta R.T. 0.009 min
 Lab File: VL043272.D
 Acq: 20 Nov 2025 19:11

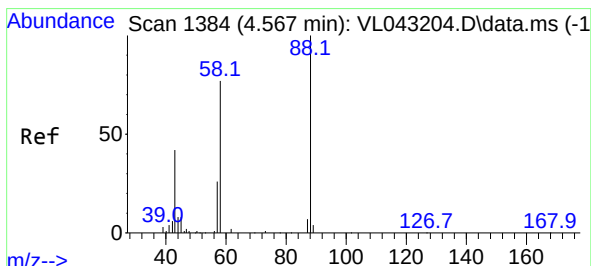
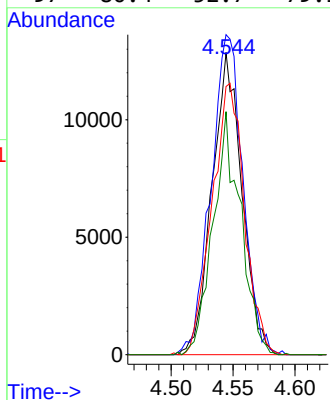
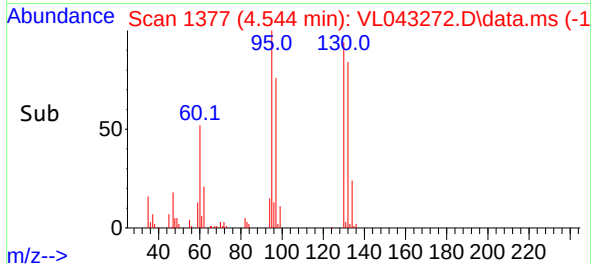
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



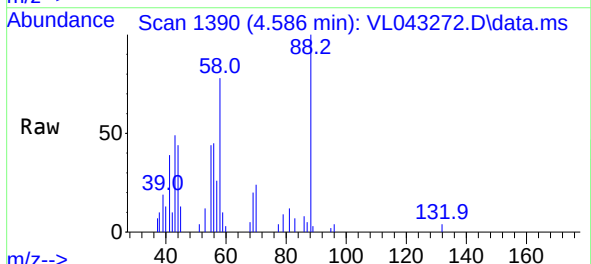
Tgt Ion:130 Resp: 21634
 Ion Ratio Lower Upper
 130 100
 95 105.5 85.7 128.5
 132 88.7 73.4 110.0
 97 80.4 52.7 79.1#

Manual Integrations
 APPROVED

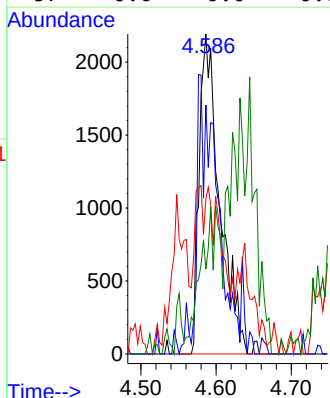
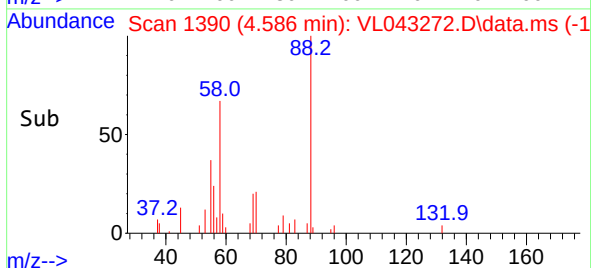
Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025

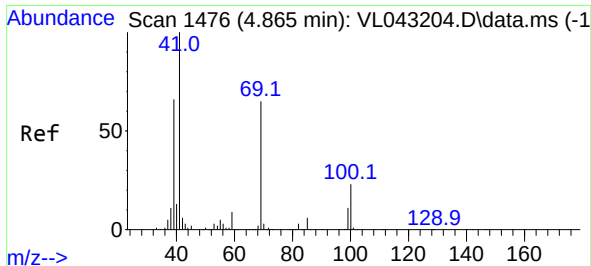


#40
 1,4-Dioxane
 Concen: 0.944 ppbv m
 RT: 4.586 min Scan# 1390
 Delta R.T. 0.019 min
 Lab File: VL043272.D
 Acq: 20 Nov 2025 19:11



Tgt Ion: 88 Resp: 4177
 Ion Ratio Lower Upper
 88 100
 58 0.0 63.0 94.6#
 43 0.0 32.5 48.7#
 57 0.0 0.0 0.0





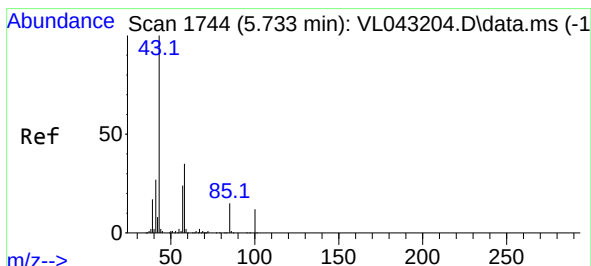
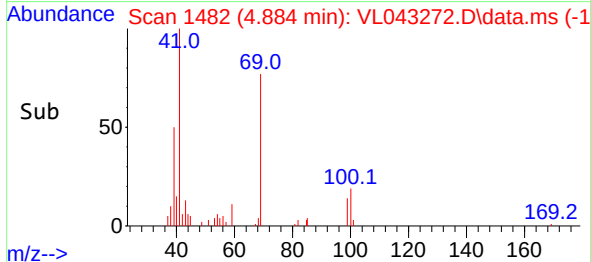
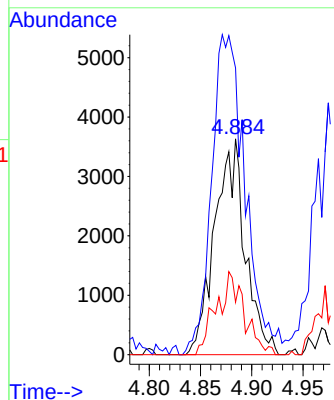
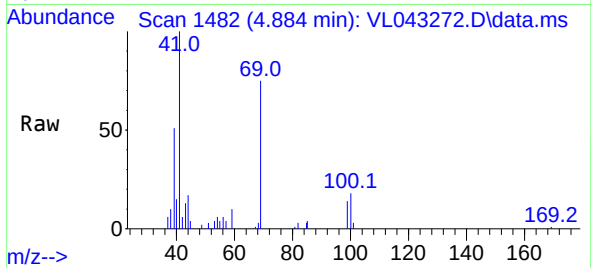
#43
Methyl Methacrylate
Concen: 0.524 ppbv m
RT: 4.884 min Scan# 1476
Delta R.T. 0.019 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 69 Resp: 748
Ion Ratio Lower Upper
69 100
41 165.2 126.7 190.1
100 35.3 28.6 43.0

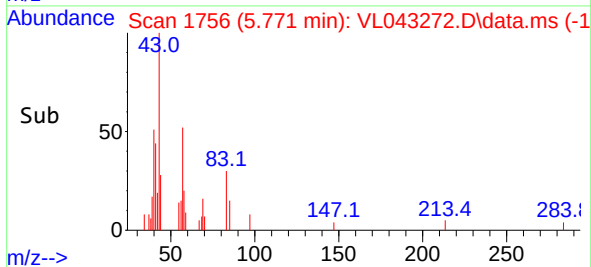
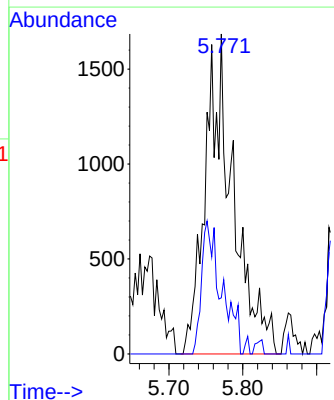
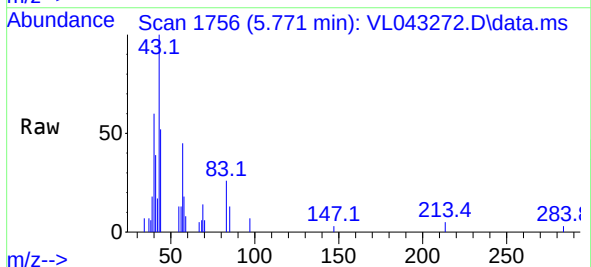
Manual Integrations
APPROVED

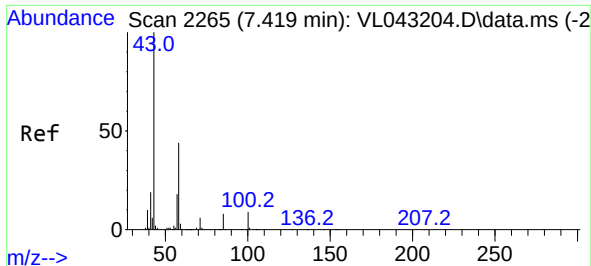
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#50
4-Methyl-2-Pentanone
Concen: 0.157 ppbv m
RT: 5.771 min Scan# 1756
Delta R.T. 0.038 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

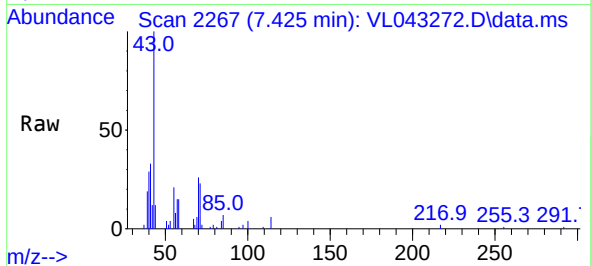
Tgt Ion: 43 Resp: 4386
Ion Ratio Lower Upper
43 100
58 30.3 28.4 42.6





#51
2-Hexanone
Concen: 0.720 ppbv m
RT: 7.425 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

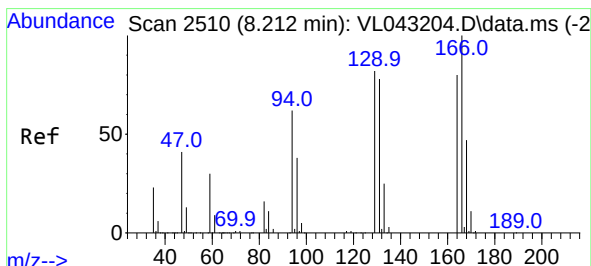
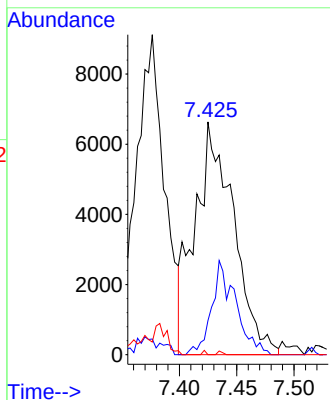
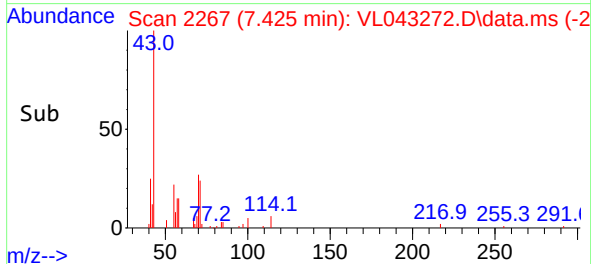
Instrument :
MSVOA_L
ClientSampleId :
SV1



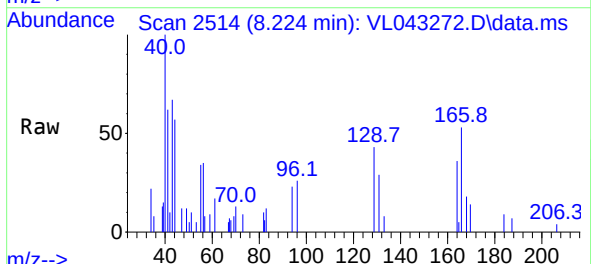
Tgt Ion: 43 Resp: 1560
Ion Ratio Lower Upper
43 100
58 25.3 38.4 57.6
98 0.0 0.0 0.0

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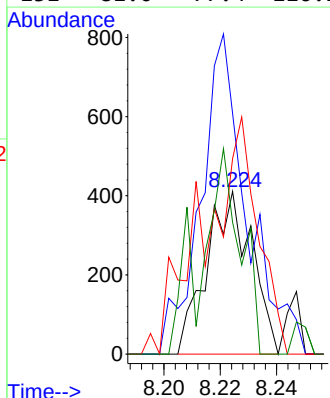
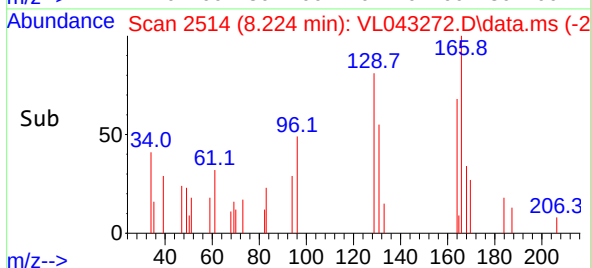
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

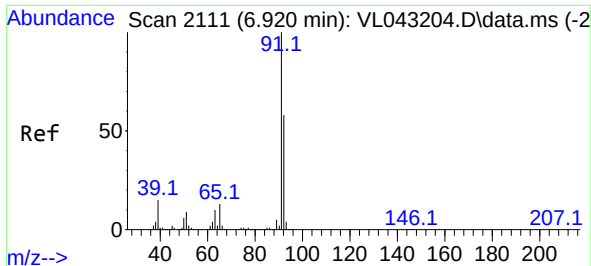


#52
Tetrachloroethene
Concen: 0.046 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. 0.012 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11



Tgt Ion:164 Resp: 457
Ion Ratio Lower Upper
164 100
166 120.2 99.4 149.2
129 95.4 81.8 122.8
131 81.0 77.4 116.2





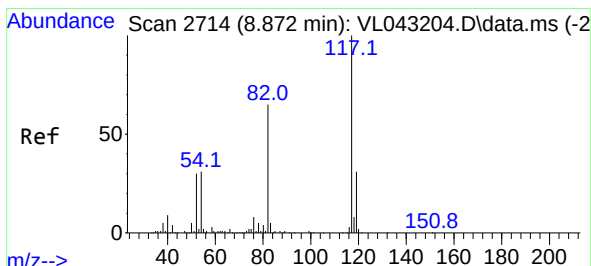
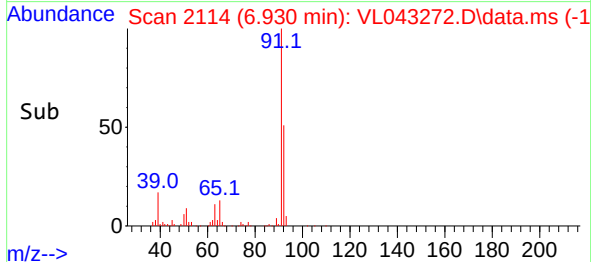
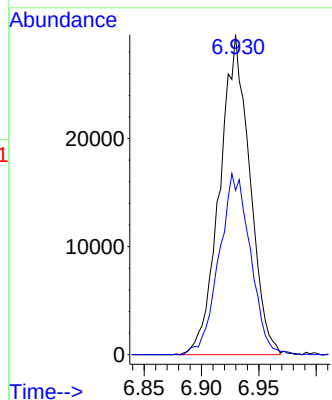
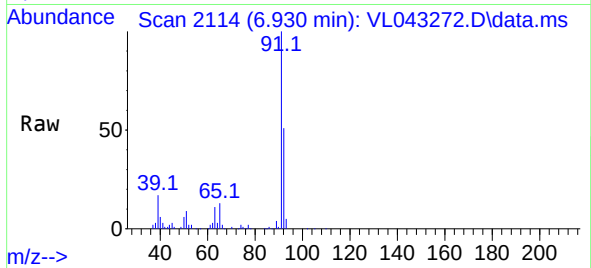
#53
Toluene
Concen: 1.696 ppbv
RT: 6.930 min Scan# 2111
Delta R.T. 0.009 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 5401
Ion Ratio Lower Upper
91 100
92 59.1 47.4 71.0

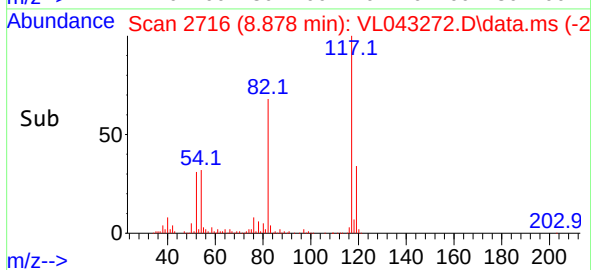
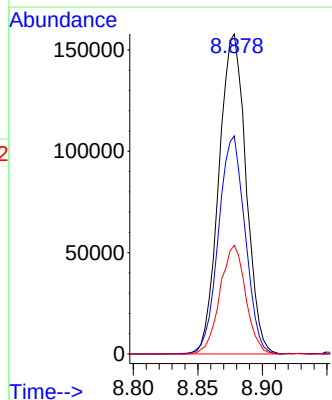
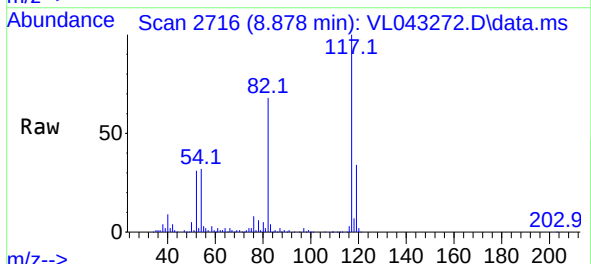
Manual Integrations
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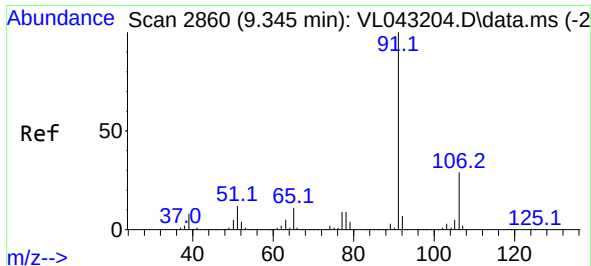
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.006 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

Tgt Ion:117 Resp: 229748
Ion Ratio Lower Upper
117 100
82 67.2 56.1 84.1
119 32.4 25.0 37.6





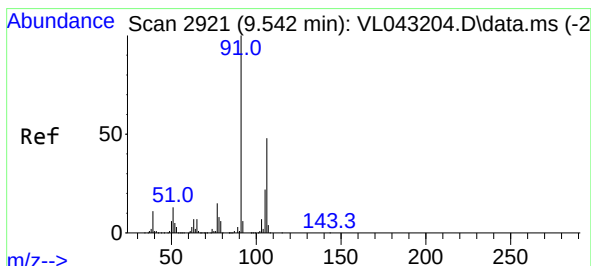
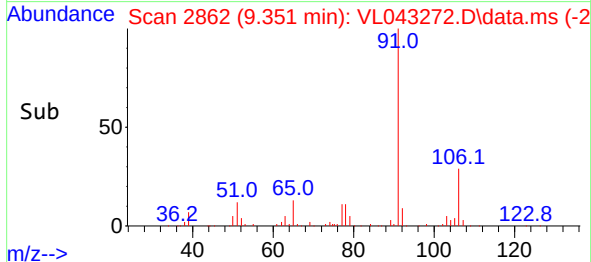
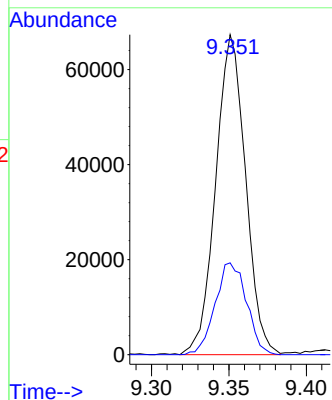
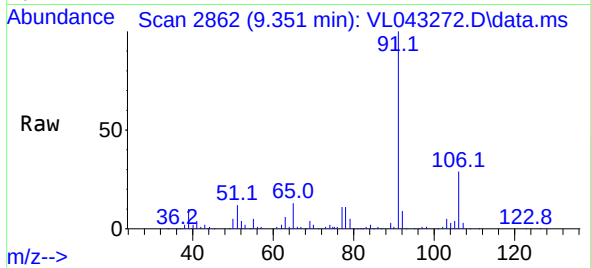
#58
Ethyl Benzene
Concen: 2.041 ppbv
RT: 9.351 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 90252
Ion Ratio Lower Upper
91 100
106 28.7 22.8 34.2

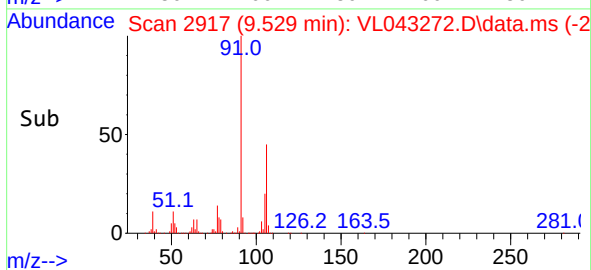
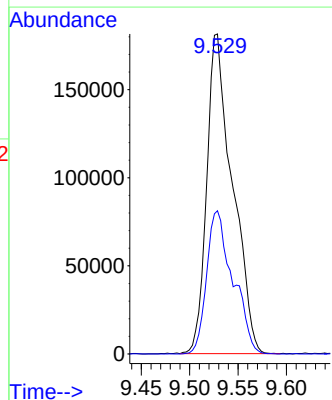
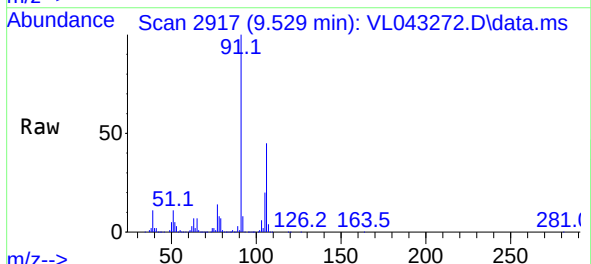
Manual Integrations
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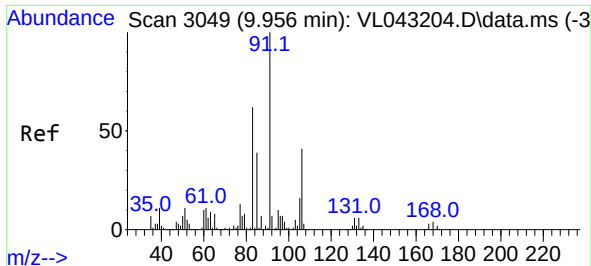
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#59
m/p-Xylene
Concen: 9.450 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.013 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

Tgt Ion: 91 Resp: 335030
Ion Ratio Lower Upper
91 100
106 45.8 36.1 54.1





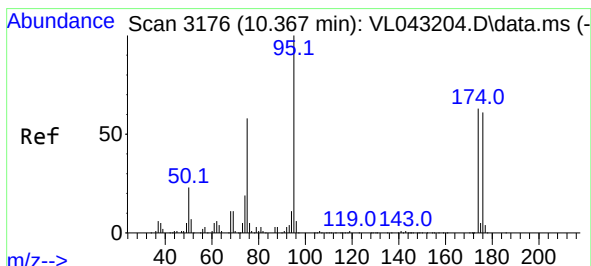
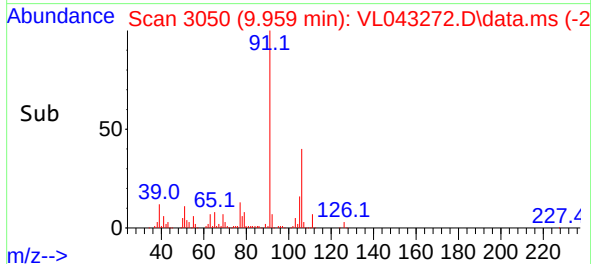
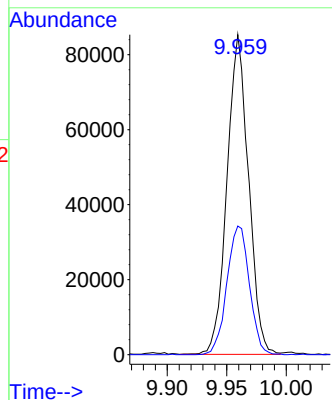
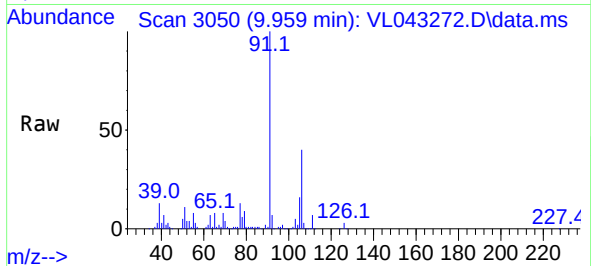
#60
o-Xylene
Concen: 3.026 ppbv
RT: 9.959 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 107179
Ion Ratio Lower Upper
91 100
106 42.0 20.9 62.8

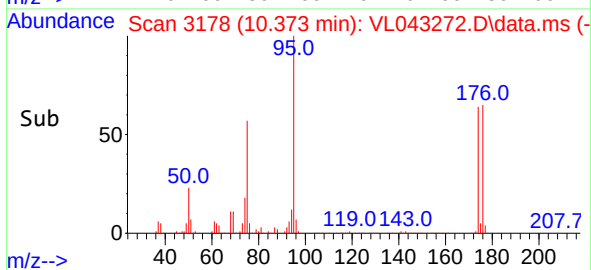
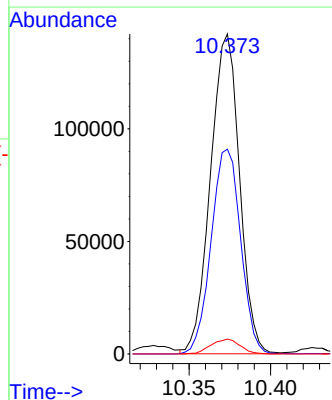
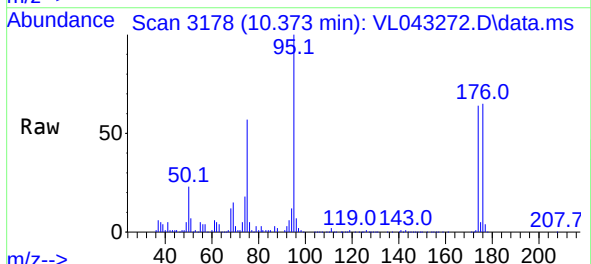
Manual Integrations
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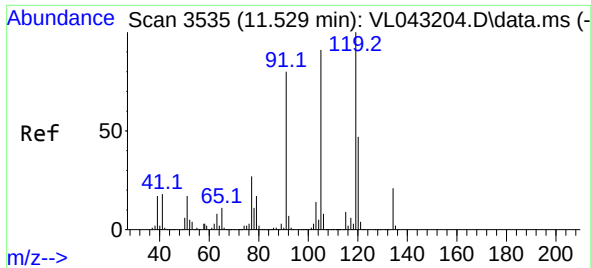
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.453 ppbv
RT: 10.373 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

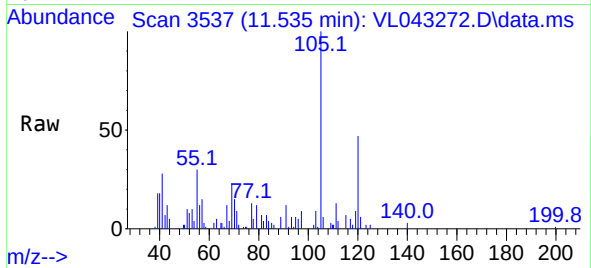
Tgt Ion: 95 Resp: 176043
Ion Ratio Lower Upper
95 100
174 65.0 50.2 75.2
175 4.7 4.1 6.1





#74
1,2,4-Trimethylbenzene
Concen: 0.210 ppbv
RT: 11.535 min Scan# 30
Delta R.T. 0.006 min
Lab File: VL043272.D
Acq: 20 Nov 2025 19:11

Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:	105	Resp:	831
Ion	Ratio	Lower	Upper
105	100		
120	46.9	41.7	62.5
91	9.5	70.0	105.0
77	18.1	23.8	35.8

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

